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ABSTRACT

The following areas are covered in the preliminary report of the Committee on the Future Role of Universities in Ontario: enrollment, enrollment forecasts, participation rates, staff, finance and capital, government, socio-economic data, and research and development. Significant changes in enrollment trends in the 1970s are reported, such as: the percentage of enrollment registered in Arts and Sciences at the graduate level decreased while enrollment in Business Administration rose sharply. More adult students are predicted and a needed program revision to meet new market needs is advocated. In the section on participation rates a shift is reported from traditional college age students to adult learners. The section on staffing shows a decrease in new faculty in the latter part of 1970, while showing no dramatic change in student teacher ratio. The sections on finance, capital, and government report that cooperation between school and government is effective and that the Province of Ontario has the financial strength and flexibility to meet the challenges of the 1980s. The socio-economic data indicates, among other things, that university students are disproportionately drawn from the middle upper class and educational attainment is also related to urban-rural origins. An increase in research and development is also reported, particularly in the sciences. Statistical data support the narrative. (LC)

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Background Data

Ministry of
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Ontario

Hon. Bette Stephenson, M.D., Minister
Harry K. Fisher, Deputy Minister

Preliminary Report of the Committee on the Future Role of Universities in Ontario

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Background Data

Preliminary Report of the Committee on the Future Role of Universities in Ontario

March 1981

CONTENTS

1.0 ENROLMENT

Table 1.1 Eligible Enrolment at Ontario Universities Total FTE
1.2.1 Enrolment (Headcount) and Percentage Change, by Institution, at Ontario Universities, Ryerson and OCA Fall 1970 to Fall 1979, Full-Time Undergraduate
1.2.2 Enrolment (Headcount) and Percentage Change, by Institution, at Ontario Universities, Ryerson and OCA Fall 1970 to Fall 1979, Part-Time Undergraduate
1.2.3 Enrolment (Headcount) and Percentage Change, by Institution, at Ontario Universities, Ryerson and OCA Fall 1970 to Fall 1979, Full-Time Graduate
1.2.4 Enrolment (Headcount) and Percentage Change, by Institution, at Ontario Universities, Ryerson and OCA Fall 1970 to Fall 1979, Part-time Graduate
1.2.5 Enrolment (Headcount) and Percentage Change by Institution, at Ontario Universities, Ryerson and OCA Fall 1970 to Fall 1979, All Levels
1.3 Enrolment (Headcount) by Legal Status at Ontario Universities Fall 1976 to Fall 1979
1.4.1 Full-Time Enrolment by Field of Study for Degrees and Diplomas at/or Below The Bachelor or First Professional Degree Level in Ontario
1.4.2 Part-Time Enrolment by Field of Study for Degrees and Diplomas at/or Below The Bachelor or First Professional Degree Level in Ontario
1.4.3 Full-Time Graduate Enrolment in Ontario
1.4.4 Part-Time Graduate Enrolment in Ontario
1.5 Enrolment (Headcount) by Age Group at Ontario Universities Fall 1972 to Fall 1979

2.0 ENROLMENT FORECASTS

Table 2.1 Total Population and Percentage Distribution in Censal Years by Selected Age Groups, 1941 to 1976, and Projected to 2031
2.2 Turning Points in Post-Secondary Age Groups by Province
2.3 Combined Projections (Thousands)
2.4 University Enrolment Trends, Total University-Level Enrolments (FTE)

3.0 PARTICIPATION RATES

Table 3.1 Gross Post-Secondary Participation Rates: Post-Secondary Enrolment as a % of 20-24 Year Olds
3.2 Post-Secondary Enrolment Related to Relevant Age Group Population, Canada and Provinces, 1974-75 to 1978-79
3.3 Degree-credit Enrolment in Institutions of Higher Education Compared with Population Aged 18-24: United States, Fall 1950 to Fall 1977
3.4 1961 Ontario Population with Post-Secondary Education 15-24 Years
3.5 1971 Ontario Population with Post-Secondary Education 15-24 Years
3.6 1976 Ontario Population with Post-Secondary Education 15-24 Years
3.7 1976 Ontario Population with Post-Secondary Education, 24, 30 and 40 Years
3.8 Post-Secondary Enrolment, by Sex, Related to Relevant Age Group Population, Ontario - 1974-75 to 1979-80

4.0 STAFF

Table 4.1 Full-Time Academic Staff at Ontario Universities and Ryerson, 1971-72 to 1979-80
4.2 Percentage of Full-Time Faculty which is Tenured and Leading to Tenure
4.3 New Faculty Appointments by Institution
4.4 Ontario Universities' FTE Student/FTE Faculty Ratios
4.5 Mean Salaries for Full-Time Faculty at Ontario Universities
4.5.1 Mean Salaries for Full Professors at Ontario Universities
4.5.2 Mean Salaries for Associate Professors at Ontario Universities
4.5.3 Mean Salaries for Assistant Professors at Ontario Universities
4.5.4 Mean Salaries for Lecturers at Ontario Universities
4.6.1 Minimum Salary Scale for Full Professors at Ontario Universities 1971/72 - 1980/81
4.6.2 Minimum Salary Scale for Associate Professors at Ontario Universities 1971/72 - 1980/81
4.6.3 Minimum Salary Scale for Assistant Professors at Ontario Universities 1971/72 - 1980/81
4.6.4 Minimum Salary Scale for Rank Below Assistant Professor at Ontario Universities 1971/72 - 1980/81
4.7 FTE of Non-Academic Staff in Ontario Universities 1979-80 and 1980-81

5.0 FINANCIAL AND CAPITAL

Table 5.1 Operating Grants in $ Millions by Institution - Ontario Universities
5.1.1 Total University Operating Grants, 1970-71 to 1980-81, as Percentages of Formula Operating Grants
5.2 Operating Grants from Provincial Sources - Ontario Universities, 1970-71 through 1979-80 ($000)
5.2.1 Total Provincial Operating Grants as a Percentage of Operating Revenue, 1970-71 through 1979-80

- 5.3 "Other" Operating Revenue 1970-71 through 1979-80 ($000)
- 5.3.1 "Other" Operating Revenue as a Percentage of Total Operating Revenue 1970-71 through 1979-80
- 5.3.2 Total Operating Revenue - Ontario Universities 1970-71 through 1979-80 ($000)
- 5.3.3 Annual Percentage Increase in Total Operating Revenue, Ontario Universities 1970-71 through 1979-80
- 5.4 Operating Income from Fees 1970-71 through 1979-80 ($000)
- 5.4.1 Fees as a Percentage of Total Operating Revenue 1970-71 through 1979-80
- 5.5 Salary Expenditures as a Percentage of Operating Expenses 1970-71 through 1979-80
- 5.6 Employee Benefits Operating Expenditures as a Percentage of Operating Expenses 1970-71 through 1979-80
- 5.6.1 Operating Fund Expenses for Employee Benefits as a Percentage of Salaries and Wages 1970-71 through 1979-80
- 5.7 Non-salary Operating Expenditures as a Percentage of Total Operating Expenses 1970-71 through 1979-80
- 5.8 Library Acquisition Operating Expenses 1970-71 through 1979-80 ($000)
- 5.9 Operating Expenses for Furniture and Equipment (Purchase and Rental) 1970-71 through 1979-80 ($000)
- 5.10 Sponsored Research Expenditures in Ontario Universities 1970-71 through 1979-80 ($000)
- 5.11 Financial Information Adjusted for Inflation -Ontario Universities 1970-71 through 1979-80 ($000)
- 5.12 Basic Income Unit Values
- 5.13 Capital Grants Disbursed to Universities and Other Institutions 1970-81 ($000)
- 5.13.1 Health Sciences Capital Grants 1970-81 ($000)

6.0 GOVERNMENT

- 6.1 Ontario Government Expenditure in Selected Areas as Percentages of Total Budgetary Expenditures 1970-71 to 1980-81

7.0 SOCIO-ECONOMIC DATA

7.1 Enrolment (Headcount) by Sex at Ontario Universities Fall 1972-1979
7.2 Enrolment by Mother Tongue 1976-77 to 1979-80; FTE Registration in French Courses Offered at Bilingual Universities, 1976-77 to 1979-80
7.3 Type of High School Program by Selected Social Background Factors
7.4 Educational Outcomes by Type of High School Program
7.5 Recruitment Into Post-Secondary Educational Attainments From Gender Background, Socio-economic Origins and Strata
7.6 Educational Attainment of Fathers of Post-Secondary Students, 1974-75

8.0 RESEARCH AND DEVELOPMENT

8.1 Performers of R & D in Canada, 1963-1979; Funders of R & D in Canada, 1963-1979
8.2 Sources of Funds for University R & D in the Natural Sciences, 1963-64 to 1979-80; Sources of Funds for University R & D in the Social Sciences, 1963-64 to 1979-80
8.2.1 Sources of Funds for Universities R & D in the Health Sciences, 1963-64 to 1979-80
8.3 Federal Government Extramural Expenditures on Scientific Activities, by Sector of Performance and Region, 1978-79; Federal Government Extramural Expenditures on Scientific Activities, by Field of Science, by Sector of Performance and Region, 1978-79
8.4 Federal Government Extramural Expenditures on Scientific Activities, by Sector of Performance and Region, 1976-77 to 1978-79; Federal Government Extramural Expenditures on Research and Development, by Sector of Performance and Region, 1978-79

8.5 Government of Ontario, Total Expenditures in the Natural Sciences, by Performer, 1973-74 to 1978-79; Current Expenditures on R & D in the Natural Sciences, by Performer, 1973-74 to 1978-79
8.5.1 Government of Ontario, Total Expenditures in the Natural Sciences by Activity and Performer, 1978-79
8.6 Government of Ontario, Total Expenditures in the Social Sciences and Humanities, by Performer, 1973-74 to 1978-79; Current Expenditures on R & D in the Social Sciences and Humanities, by Performer, 1973-74 to 1978-79
8.6.1 Government of Ontario, Total Expenditures in the Social Sciences and Humanities by Activity and Performer, 1978-79
8.7 The University Research Force in the Natural Sciences and Engineering, 1976 to 2001

ENROLMENT

During the 1970's there were significant changes in enrolment trends in Ontario universities. The number of persons enrolled in credit courses continued to grow through fall 1976 when it reached 242,445. (Table 1.2.4) In 1977 and 1978 there were small decreases in enrolment; but in 1979 it increased by 2.15%. Total eligible full-time equivalent enrolment followed the same general pattern although the increase in 1979 was minimal. (Table 1.1)

Student preference for certain disciplines has changed considerably since 1970, particularly at the undergraduate level as shown in Tables 1.4.1 - 1.4.4. During the 1969/70 academic year, 63.2% of full-time undergraduate enrolment was registered in Arts and Science programs compared with 52.1% in 1979/80. The movement away from Arts and Science programs was even more dramatic at the part-time undergraduate level. In 1969/70 93.3% of the part-time enrolment was taking Arts & Science courses compared with 73.5% in 1979/80. While the percentage of undergraduate enrolment in the professional programs such as Dentistry, Engineering, Law and Medicine steadily increased between 1969/70 and 1979/80, the percentage of enrolment in Commerce and Business Administration rose sharply during this period.

The percentage of enrolment registered in Arts & Science at the graduate level also decreased, but less dramatically. Moreover, the percentage of enrolment in programs offered on the part-time graduate level remained relatively constant during the decade. However, preference for programs in Education, Commerce and Business Administration increased at the full-time graduate level.

The percentage of students in Canada on student and other visas enrolled in Ontario Universities increased from 4.3% in 1976 to 5.2% in 1979. (Table 1.3) The percentage of visa students at the graduate level has been traditionally higher than at the undergraduate level. In 1979 visa students represented 16.8% of the full-time graduate enrolment compared with 17.7% in 1979. At the full-time undergraduate level, 4.5% of the 1976 enrolment was comprised of visa students versus 5.6% in 1979.

As Table 1.5 indicates, the age profile of students has not changed a great deal during the decade. It is interesting to note, however, that in 1979 84,156 or 38.5% of all persons enrolled in one or more credit courses were aged 25 years and over. Of course, most of these students were enrolled in part-time programs.

Table 1.1 Eligible[1] Enrolment at Ontario Universities
Total FTE[2]

	1972-73 FTE	1973-74 FTE	[3] %	1974-75 FTE	[3] %	1975-76 FTE	[3] %	1976-77 FTE	[3] %	1977-78 FTE	[3] %	1978-79 FTE	[3] %	1979-80 FTE	[3] %
Brock	3 127.2	3 282.7	5.0	3 485.5	6.2	3 816.2	9.5	3 709.9	(2.8)	3 499.6	(5.7)	3 375.2	(3.6)	3 426.7	1.5
Carleton	10 712.9	10 792.7	0.7	11 121.1	3.0	12 048.7	8.3	11 862.0	(1.5)	11 046.7	(6.9)	10 413.6	(5.7)	10 385.4	(0.3)
Guelph	8 539.7	9 368.7	9.7	10 219.2	9.1	10 551.9	3.3	10 797.1	2.3	10 655.8	(1.3)	9 811.0	(7.9)	9 713.4	(1.0)
Lakehead	3 397.5	3 227.1	(5.0)	3 217.2	(0.3)	3 524.7	9.6	3 627.8	2.9	3 728.6	2.8	3 544.6	(4.9)	3 301.8	(6.8)
Laurentian	3 050.5	3 248.7	6.5	3 635.3	11.9	3 734.9	2.7	3 827.1	2.5	3 554.6	(7.1)	3 448.9	(3.0)	3 431.7	(0.5)
Algoma	623.8	606.9	(2.7)	594.1	(2.1)	557.4	(6.2)	488.9	(12.3)	464.0	(5.1)	429.2	(7.5)	328.6	(23.4)
Nipissing	295.8	400.5	35.4	498.3	24.4	621.3	24.7	641.9	3.3	571.3	(11.0)	457.9	(19.9)	439.3	(4.1)
Hearst	147.0	151.3	2.9	167.4	10.6	149.8	(10.5)	132.6	(11.5)	96.5	(27.2)	128.3	33.0	86.5	(32.6)
McMaster	10 088.9	10 275.4	1.8	11 114.4	8.2	11 927.4	7.3	12 107.5	1.5	11 704.2	(3.3)	11 362.2	(2.9)	11 138.6	(2.0)
Ottawa	12 244.2	13 083.7	6.9	14 020.3	7.2	14 711.3	4.9	15 046.4	2.3	14 469.7	(3.8)	14 777.8	2.1	15 156.8	2.6
Queen's	10 410.2	10 804.9	3.8	11 257.4	4.2	11 842.4	5.2	11 994.7	1.3	11 867.6	(1.1)	11 814.1	(0.5)	12 108.4	2.5
Toronto	33 060.3	34 880.3	5.5	37 003.5	6.1	38 326.6	3.6	37 507.3	(2.1)	35 735.2	(4.7)	36 449.6	2.0	37 338.1	2.4
Trent	2 304.9	2 223.9	(3.5)	2 490.8	12.0	2 717.0	9.1	2 848.1	4.8	2 839.6	(0.3)	2 581.8	(9.1)	2 563.1	(0.7)
Waterloo	12 644.5	13 025.2	3.0	13 428.8	3.1	14 210.5	5.8	15 119.9	6.4	14 965.7	(1.0)	14 824.7	(0.9)	15 077.1	1.7
Western	17 209.4	18 417.6	7.0	19 478.2	5.8	20 395.3	4.7	19 999.8	(1.9)	19 462.5	(2.7)	18 411.8	(5.4)	18 492.4	0.4
Wilfrid Laurier	4 448.4	4 438.3	(0.2)	4 389.1	(1.1)	4 742.8	8.1	4 849.7	2.3	4 766.2	(1.7)	4 627.1	(2.9)	4 792.0	3.6
Windsor	7 580.7	7 951.4	4.9	8 401.0	5.7	9 656.8	14.9	10 359.6	7.3	9 732.1	(6.1)	8 481.6	(12.8)	8 372.8	(1.3)
York	14 983.0	15 737.1	5.0	16 517.5	5.0	17 588.8	6.5	17 969.7	2.2	16 902.5	(5.9)	16 518.0	(2.3)	16 148.5	(2.2)
O.I.S.E.	1 435.9	1 603.7	11.7	1 615.0	0.7	1 620.8	0.4	1 726.8	6.5	1 755.6	1.7	1 712.2	(2.5)	1 692.1	(1.2)
Ryerson	8 342.0	8 985.5	7.7	9 412.1	4.7	9 882.4	5.0	9 584.5	(3.0)	10 389.1	8.4	10 618.0	2.2	10 892.7	2.6
O.C.A.	935.0	877.0	(6.2)	1 192.6	36.0	1 407.7	18.0	1 603.4	13.9	1 651.5	3.0	1 662.1	0.6	1 758.9	5.8
Dominicain	na	50.4	na	62.6	24.2	67.1	7.2	71.5	6.6	71.3	(0.3)	79.4	11.4	75.5	(4.9)
TOTAL[4]	165 620.8	173 433.0	4.7	183 321.4	5.7	194 101.8	5.9	195 876.2	0.9	189 930.1	(3.0)	185 529.1	(2.3)	186 720.4	0.6

[1] Eligible to generate formula operating grant for the institution

[2] Sum of undergraduate FFTE for each of four terms plus graduate FTE for fall and summer terms.
Prior to 1976-77 undergraduate FTE included fall and summer plus graduate FTE for fall and summer terms.
(Undergraduate was not reported on a term by term basis until 1976-77.)

[3] % change over previous year.
[4] Totals may not add exactly due to rounding.

NOTE: na = not available () = negative number
Totals from 1976-77 onwards are comparable. 1975-76 and prior years' amounts include FTEs for undergraduates calculated on a different basis and are not, strictly speaking, directly comparable.
O.C.A. has been included for all years to improve comparability. It was not in fact eligible until 1975-76.

SOURCE: Derived from UAR Financial reports, which summarise UAR submissions by institutions and from notes in University Affairs Division files relating to Ryerson, Dominicain and O.C.A.

Table 1.2.1 Enrolment (Headcount) and Percentage Change,
By Institution, at Ontario Universities,
Ryerson and OCA. Fall 1970 to Fall 1979
Full-Time Undergraduate

	Fall 1970	Fall 1971		Fall 1972		Fall 1973		Fall 1974		Fall 1975		Fall 1976		Fall 1977		Fall 1978		Fall 1979	
	# Students	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change
Brock	2,138	2,336	9.26	2,339	0.13	2,195	(6.16)	2,236	1.87	2,350	5.10	2,533	7.79	2,422	(4.38)	2,135	(11.85)	2,118	(0.80)
Carleton	7,554	7,743	2.50	7,560	(2.36)	7,559	(0.01)	7,675	1.53	8,124	5.85	8,233	1.34	7,795	(5.32)	7,324	(6.04)	7,326	0.03
Guelph	5,657	6,783	19.90	7,286	7.42	8,075	10.83	8,774	8.66	8,861	0.99	9,380	5.86	9,448	0.72	8,647	(8.48)	8,549	(1.13)
Lakehead	2,850	2,776	(2.60)	2,491	(10.27)	2,271	(8.83)	2,303	1.41	2,521	9.47	2,719	7.85	2,783	2.35	2,581	(7.26)	2,413	(6.51)
Laurentian	2,446	2,493	1.92	2,380	(4.53)	2,392	0.50	2,654	10.95	2,839	6.97	3,160	11.31	2,922	(7.53)	2,726	(6.71)	2,550	(6.46)
McMaster	6,725	7,263*	8.00	7,270*	0.10	7,450*	2.48	8,140	9.26	8,844	8.65	9,256	4.66	9,156	(0.97)	8,880	(3.12)	8,770	(1.24)
Ottawa	7,211	7,384	2.40	7,747	4.92	8,512	9.87	9,199	8.07	9,653	4.94	10,065	4.27	10,010	(0.55)	9,885	(1.25)	10,547	6.70
Queen's	7,088	7,664	8.13	7,948	3.71	8,347	5.02	8,759	4.94	9,230	5.38	9,492	2.84	9,295	(2.08)	9,376	0.87	9,287	(0.95)
Toronto	21,887	22,464	2.64	23,305	3.74	24,656	5.80	26,932	9.23	27,793	3.20	27,680	0.41	26,613	(3.85)	27,731	4.20	28,489	2.73
Trent	1,643	1,764	7.36	1,895	7.43	1,822	(3.85)	1,993	9.39	2,204	10.59	2,449	11.12	2,414	(1.43)	2,137	(11.47)	2,100	(1.73)
Waterloo	10,577	11,115	5.09	11,473	3.22	11,700	1.98	12,158	3.91	12,766	5.00	13,306	4.23	13,226	(0.60)	13,127	(0.75)	13,234	0.82
Western	12,269*	13,552	10.46	13,198	(2.61)	14,365	8.84	15,612	8.68	16,393	5.00	16,465	0.44	15,896	(3.46)	14,906	(6.23)	14,775	(0.88)
Wilfrid Laurier	2,638	2,574	(2.43)	2,356	(8.47)	2,293	(2.67)	2,427	5.84	2,749	13.27	3,012	9.57	3,008	(0.13)	3,011	0.10	3,223	7.04
Windsor	5,474	5,351	(2.25)	5,021	(6.17)	5,243	4.42	5,509	5.07	6,431	16.74	6,855	6.59	6,170	(9,99)	5,553	(10.00)	5,618	1.17
York	9,002	10,394	15.46	10,259	(1.30)	10,456	1.92	10,505	0.47	11,241	7.01	11,839	5.32	11,102	(6.23)	10,499	(5.43)	10,143	(3.39)
Dominicain	na	na	na	na	na	na	na	37*	na	39*	5.41	43*	10.26	46	6.98	58	26.09	52	(10.34)
Sub Total	**105,159**	**111,656**	**6.18**	**112,528**	**0.78**	**117,336**	**4.27**	**124,913**	**6.46**	**132,038**	**5.70**	**136,487**	**3.37**	**132,316**	**(3.06)**	**128,576**	**(2.83)**	**129,194**	**0.48**
Ryerson	6,327*	7,070	11.74	7,145	1.06	8,278	15.86	8,672	4.76	8,757	0.98	8,950	2.20	9,119	1.89	9,171	0.57	9,200	0.32
O.C.A.	1,005*	1,048*	4.28	935*	(10.78)	822*	(12.09)	1,034*	25.79	1,135*	9.77	1,266*	11.54	1,266	0.00	1,227	(3.08)	1,269	3.42
Sub Total	**7,332**	**8,118**	**10.72**	**8,080**	**(0.47)**	**9,100**	**12.62**	**9,706**	**6.66**	**9,892**	**1.92**	**10,216**	**3.28**	**10,385**	**1.65**	**10,398**	**0.13**	**10,469**	**0.68**
TOTAL	**112,491**	**119,774**	**6.47**	**120,608**	**0.70**	**126,436**	**4.83**	**134,619**	**6.47**	**141,930**	**5.43**	**146,703**	**3.36**	**142,701**	**(2.73)**	**138,974**	**(2.61)**	**139,663**	**0.50**

NOTE: na = not available n/a = not applicable () = negative number
Adjustments have been made to nominally reported figures to account for the inconsistencies in reporting of interns and residents in years prior to 1977, particularly at Toronto, Ottawa, and Queen's for the years 1972 to 1976. An attempt has been made to minimize other differences in reporting year to year so as to provide comparability. In some instances, insufficient information was available to achieve this end. CAUTION SHOULD BE EXERCISED IN DRAWING CONCLUSIONS FROM YEAR-TO-YEAR CHANGES, PARTICULARLY PRIOR TO 1974. Detailed notes are appended to these tables.

SOURCES: USIS files, adjusted for inclusion/exclusion of interns and residents and various divinity schools.
Statistics Canada 81-204 publications (years prior to 1974, and for interns/residents 74-76).
UAR reports to MCU/University Affairs, Statistical Summaries of MCU/University Affairs, correspondence with individual institutions
Asterisked figures are entirely or partly from these latter sources.

Table 1.2.2 Enrolment (Headcount) and Percentage Change,
By Institution, at Ontario Universities,
Ryerson and OCA. Fall 1970 to Fall 1979
Part-Time Undergraduate

	Fall 1970	Fall 1971		Fall 1972		Fall 1973		Fall 1974		Fall 1975		Fall 1976		Fall 1977		Fall 1978		Fall 1979	
	# Students	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change
Brock	2,032	1,345	(33.81)	1,604	19.26	2,006	25.06	2,239	11.62	2,247	0.36	2,087	(7.12)	2,187	4.79	2,167	(0.91)	2,483	14.58
Carleton	5,276	5,186	(1.71)	4,979	(3.99)	4,814	(3.31)	5,335	10.82	6,072	13.81	6,084	0.20	5,652	(7.10)	5,289	(6.42)	4,973	(5.97)
Guelph	264	322	21.97	417	29.50	503	20.62	669	33.00	814	21.67	656	(19.41)	672	2.44	784	16.67	1,135	44.77
Lakehead	1,395	1,320	(5.38)	1,349	2.20	1,369	1.48	1,321	(3.51)	1,366	3.41	1,412	3.37	1,321	(6.44)	1,306	(1.14)	1,352	3.52
Laurentian	4,103	3,910	(4.70)	3,787	(3.15)	4,068	7.42	3,902	(4.08)	3,778	(3.18)	3,719	(1.56)	3,453	(7.15)	3,492	1.13	3,713	6.33
McMaster	6,032	3,027	(49.82)	3,004	(0.76)	3,178	5.79	3,134	(1.38)	3,320	5.93	3,132	(5.66)	2,856	(8.81)	2,931	2.63	2,793	(4.71)
Ottawa	3,662	3,647	(0.41)	4,206	15.33	4,522	7.51	5,115	13.11	5,845	14.27	5,697	(2.53)	5,457	(4.21)	5,297	(2.93)	5,561	4.98
Queen's	2,323	2,175	(6.37)	2,178	0.14	2,141	(1.70)	2,075	(3.08)	2,331	12.34	2,145	(7.98)	2,443	13.89	2,434	(0.37)	3,021	24.12
Toronto	7,251	8,776	21.03	9,013	2.70	9,466	5.03	9,365	(1.07)	9,456	0.97	8,822	(6.70)	8,713	(1.24)	9,352	7.38	11,020	17.84
Trent	530	631	19.06	738	16.96	741	0.41	984	32.79	1,064	8.13	1,067	0.28	1,164	9.09	1,076	(7.56)	1,267	17.75
Waterloo	1,133	1,529	34.95	1,594	4.25	2,077	30.30	2,396	15.36	2,568	7.18	3,161	23.09	3,710	17.37	3,902	5.18	4,455	14.17
Western	3,172	3,510	10.66	3,436	(2.11)	3,954	15.08	3,899	(1.39)	3,980	2.08	3,808	(4.32)	3,864	1.47	3,993	3.26	4,347	8.87
Wilfrid Laurier	3,872	3,562	(8.01)	3,588	0.73	3,491	(2.70)	3,081	(11.74)	3,361	9.08	2,941	(12.50)	2,617	(11.02)	2,488	(4.93)	2,461	(1.09)
Windsor	2,883	2,939	1.94	2,917	(0.75)	3,212	10.11	3,358	4.55	3,772	12.33	3,647	(3.31)	3,668	0.58	3,582	(2.34)	3,646	1.79
York	6,301	7,076	12.30	7,542	6.59	8,715	15.55	9,520	9.24	10,194	7.08	10,294	0.98	9,921	(3.62)	9,842	(0.80)	10,031	1.92
Dominicain	na	na	na	na	na	na	na	38*	na	223	n/a	235	5.38	239	1.70	171	(28.45)	170	(0.58)
Sub Total	**50,229**	**48,955**	**(2.54)**	**50,352**	**2.85**	**54,257**	**7.76**	**56,431**	**4.01**	**60,391**	**7.02**	**58,907**	**(2.46)**	**57,937**	**(1.65)**	**58,106**	**0.29**	**62,428**	**7.44**
Ryerson	na	na	na	3,935*	na	4,225*	7.37	5,341*	26.41	6,531	22.28	7,443	13.96	7,881	5.88	8,869	12.54	9,357	5.50
O.C.A.	—	—	—	—	—	385*	n/a	678*	76.10	958	41.30	975	1.77	1,027	5.33	1,206	17.43	1,298	7.63
Sub Total	**na**	**na**	**na**	**3,935**	**na**	**4,610**	**n/a**	**6,019**	**30.56**	**7,489**	**24.42**	**8,418**	**12.40**	**8,908**	**5.82**	**10,075**	**13.10**	**10,695**	**5.76**
TOTAL	**na**	**na**	**na**	**54,287**	**na**	**58,867**	**8.44**	**62,450**	**6.09**	**67,880**	**8.69**	**67,325**	**(0.82)**	**66,845**	**(0.71)**	**68,181**	**2.00**	**73,083**	**7.19**

NOTES: na = not available n/a = not applicable; () = negative number

An attempt has been made to minimize differences in reporting year to year so as to provide comparability. In some instances, insufficient information was available to achieve this end. CAUTION SHOULD BE EXERCISED IN DRAWING CONCLUSIONS FROM YEAR-TO-YEAR CHANGES, PARTICULARLY PRIOR TO 1974. Detailed notes are appended to these tables.

Part-time data in 1970 in particular are not comparable to later years due to the inclusion in 1970 of some non-credit continuing education enrolment excluded in later years but not separable for 1970. Also, Ryerson data for part-time are unobtainable on the same basis as later years until 1972. 1972-76 data for Ryerson include estimates provided by the institution, based on FTE reported from 1972 onwards only.

Table 1.2.3 Enrolment (Headcount) and Percentage Change,
By Institution, at Ontario Universities,
Ryerson and OCA. Fall 1970 to Fall 1979
Full-Time Graduate

	Fall 1970	Fall 1971		Fall 1972		Fall 1973		Fall 1974		Fall 1975		Fall 1976		Fall 1977		Fall 1978		Fall 1979	
	# Students	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change
Brock	25	34	36.00	19	(44.12)	50	163.16	55	10.00	39	(29.09)	73	87.18	70	(4.11)	53	(24.29)	49	(7.55)
Carleton	716	711	(0.70)	633	(10.97)	682	7.74	769	12.76	996	29.52	979	(1.71)	966	(1.33)	974	0.83	951	(2.36)
Guelph	560	527	(5.89)	506	(3.98)	545	7.71	607	11.38	668	10.05	670	0.30	609	(9.10)	614	0.82	646	5.21
Lakehead	81	94	16.05	85	(9.57)	87	2.35	85	(2.30)	98	15.29	105	7.14	104	(0.95)	97	(6.73)	113	16.49
Laurentian	16	20	25.00	37	85.00	21	(43.24)	39	85.71	49	25.64	54	10.20	77	42.59	83	7.79	65	(21.69)
McMaster	1,203	1,405	16.79	1,179	(16.09)	1,192	1.10	1,406	17.95	1,303	(7.33)	1,221	(6.29)	1,126	(7.78)	1,147	1.87	1,129	(1.57)
Ottawa	1,586	1,441	(9.14)	1,314	(8.81)	1,246	(5.18)	1,385	11.16	1,469	6.06	1,254	(14.64)	1,205	(3.91)	1,188	(1.41)	1,276	7.41
Queen's	999	997	(0.20)	1,095	9.83	1,007	(8.04)	1,033	2.58	1,056	2.23	1,135	7.48	1,123	(1.06)	1,053	(6.23)	1,056	0.28
Toronto	5,025	5,151	2.51	4,935	(4.19)	5,064	2.61	5,154	1.78	5,288	2.60	5,334	0.87	5,425	1.71	5,354	(1.31)	4,784	(10.65)
Trent	10	12	20.00	8	(33.33)	7	(12.50)	11	57.14	16	45.45	14	(12.50)	26	85.71	38	46.15	33	(13.16)
Waterloo	1,342	1,169	(12.89)	1,193	2.05	1,235	3.52	1,267	2.59	1,406	10.97	1,372	(2.42)	1,222	(10.93)	1,146	(6.22)	1,101	(3.75)
Western	1,739	1,611	(7.36)	1,925	19.49	1,950	(3.90)	1,589	(14.11)	1,631	2.64	1,621	(0.61)	1,624	0.19	1,650	1.60	1,660	0.61
Wilfrid Laurier	188	218	15.96	204	(6.42)	224	9.80	231	3.13	220	(4.76)	255	15.91	254	(0.39)	267	5.12	246	(7.87)
Windsor	466	487	4.51	438	(10.06)	462	5.48	492	6.49	570	15.85	549	(3.68)	588	7.10	524	(10.88)	576	9.92
York	785	946	20.51	946	0.00	1,019	7.72	1,056	3.63	1,260	19.32	1,343	6.59	1,235	(8.04)	1,218	(1.38)	1,253	2.87
Dominicain	na	na	na	na	na	na	na	14	na	12	(14.29)	12	0.00	7	(41.67)	11	57.14	14	27.27
Sub Total	**14,741**	**14,823**	**0.56**	**14,517**	**(2.06)**	**14,691**	**1.20**	**15,193**	**3.42**	**16,081**	**5.84**	**15,991**	**(0.56)**	**15,661**	**(2.06)**	**15,417**	**(1.56)**	**14,952**	**(3.02)**
Ryerson	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O.C.A.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sub Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		—	
TOTAL	**14,741**	**14,823**	**0.56**	**14,517**	**(2.06)**	**14,691**	**1.20**	**15,193**	**3.42**	**16,081**	**5.84**	**15,991**	**(0.56)**	**15,661**	**(2.06)**	**15,417**	**(1.56)**	**14,952**	**(3.02)**

NOTE: na = not available n/a = not applicable () = negative number

An attempt has been made to minimize differences in reporting year to year so as to provide comparability. In some instances, insufficient information was available to achieve this end. CAUTION SHOULD BE EXERCISED IN DRAWING CONCLUSIONS FROM YEAR-TO-YEAR CHANGES, PARTICULARLY PRIOR TO 1974. Detailed notes are appended to these tables.

Table 1.2.4 Enrolment (Headcount) and Percentage Change,
By Institution, at Ontario Universities,
Ryerson and OCA. Fall 1970 to Fall 1979
Part-Time Graduate

	Fall 1970	Fall 1971		Fall 1972		Fall 1973		Fall 1974		Fall 1975		Fall 1976		Fall 1977		Fall 1978		Fall 1979	
	# Students	# Students	$ Change	# Students	$ Change	# Students	$ Change	# Students	$ Change	# Students	$ Change	# Students	$ Change	# Students	$ Change	# Students	$ Change	# Students	$ Change
Brock	3	3	..	8	..	9	..	20	122.22	244	n/a	316	29.51	399	26.27	448	12.28	426	(4.91)
Carleton	455	440	(3.30)	487	10.68	530	8.83	687	29.62	785	14.26	835	6.37	768	(8.02)	795	3.52	818	2.89
Guelph	110	111	0.91	134	20.72	142	5.97	142	0.00	162	14.08	156	(3.70)	125	(19.87)	134	7.20	129	(3.73)
Lakehead	35	58	65.71	70	20.69	79	12.86	88	11.39	96	9.09	87	(9.37)	104	19.54	122	17.31	123	0.82
Laurentian	—	12	..	72	500.00	89	23.61	76	(14.61)	72	(5.26)	88	22.22	130	47.73	109	(16.15)	180	65.13
McMaster	477	536	12.37	550	2.61	514	(6.55)	604	17.51	649	7.45	712	9.71	686	(3.65)	690	0.58	785	13.77
Ottawa	1,489	1,651	10.88	1,857	12.48	2,049	10.34	2,192	6.98	2,277	3.88	2,182	(4.17)	1,846	(15.40)	1,698	(8.02)	1,614	(4.95)
Queen's	273	412	50.92	402	(2.43)	446	10.95	538	20.63	514	(4.46)	486	(5.45)	543	11.73	531	(2.21)	466	(12.24)
Toronto	2,461	2,873	16.74	3,293	14.62	3,749	13.85	3,829	2.13	3,947	3.08	4,019	1.82	4,292	6.79	4,223	(1.61)	4,095	(3.03)
Trent	2	—	..	1	..	3	..	5	..	7	..	8	..	11	..	11	..	8	..
Waterloo	331	397	19.94	518	30.48	615	18.73	667	8.46	750	12.44	716	(4.53)	660	(7.82)	619	(6.21)	601	(2.91)
Western	130	451	246.92	618	37.03	443	(28.32)	424	(4.29)	533	25.71	576	8.07	667	15.80	744	11.54	776	4.30
Wilfrid Laurier	71	63	(11.27)	53	(15.87)	66	24.53	97	46.97	67	(30.93)	145	116.42	186	28.28	213	14.52	207	(2.82)
Windsor	186	186	0.00	204	9.68	335	64.22	433	29.25	527	21.71	547	3.80	505	(7.68)	494	(2.18)	545	10.32
York	774	865	11.76	917	6.01	1,043	13.74	1,032	(1.05)	1,318	27.71	1,539	16.77	1,397	(9.23)	1,279	(8.45)	1,268	(0.86)
Dominicain	na	na	na	na	na	na	na	13*	na	14*	7.69	14*	0.00	15	7.14	17	13.33	9	(47.06)
Sub Total	**6,797**	**8,058**	**18.55**	**9,184**	**13.97**	**10,112**	**10.10**	**10,847**	**7.27**	**11,962**	**10.28**	**12,426**	**3.88**	**12,334**	**(0.74)**	**12,127**	**(1.68)**	**12,050**	**(0.63)**
Ryerson	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O.C.A.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sub Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	**6,797**	**8,058**	**18.55**	**9,184**	**13.97**	**10,112**	**10.10**	**10,847**	**7.27**	**11,962**	**10.28**	**12,426**	**3.88**	**12,334**	**(0.74)**	**12,127**	**(1.68)**	**12,050**	**(0.63)**

NOTE: .. percentage change not meaningful na = not available; n/a = not applicable; () = negative number
An attempt has been made to minimize differences in reporting year to year so as to provide comparability. In some instances, insufficient information was available to achieve this end. CAUTION SHOULD BE EXERCISED IN DRAWING CONCLUSIONS FROM YEAR-TO-YEAR CHANGES, PARTICULARLY PRIOR TO 1974. Detailed notes are appended to these tables. Since part-time graduate numbers at many institutions are small, percentage changes at the institutional level are not a reliable indicator of relative change.

Table 1.2.3 Enrolment (Headcount) and Percentage Change,
By Institution, at Ontario Universities,
Ryerson and OCA. Fall 1970 to Fall 1979
All Levels

	Fall 1970	Fall 1971		Fall 1972		Fall 1973		Fall 1974		Fall 1975		Fall 1976		Fall 1977		Fall 1978		Fall 1979	
	# Students	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change	# Students	% Change
Brock	4,198	3,718	(11.43)	3,970	6.78	4.60	7.30	4,550	6.81	4,880	7.25	5,009	2.64	5,078	1.38	4,803	(5.42)	5,076	5.68
Carleton	14,001	14,080	0.56	13,659	(2.99)	13,585	(0.54)	14,466	6.49	15,977	10.45	16,131	0.96	15,181	(5.89)	14,382	(5.26)	14,068	(2.18)
Guelph	6,591	7,743	17.48	8,343	7.75	9,265	11.05	10,192	10.01	10,505	3.07	10,862	3.40	10,854	(0.07)	10,179	(6.22)	10,459	2.75
Lakehead	4,361	4,248	(2.59)	3,995	(5.96)	3,806	(4.73)	3,797	(0.24)	4,081	7.48	4,323	5.93	4,312	(0.25)	4,106	(4.78)	4,001	(2.56)
Laurentian	6,565	6,435	(1.98)	6,276	(2.47)	6,570	4.68	6,671	1.54	6,738	1.00	7,021	4.20	6,582	(6.25)	6,410	(2.61)	6,508	1.53
McMaster	14,437	12,231	(15.28)	12,003	(1.86)	12,334	2.76	13,284	7.70	14,116	6.26	14,321	1.45	13,834	(3.40)	13,648	(1.34)	13,477	(1.25)
Ottawa	13,948	14,123	1.25	15,124	7.09	16,329	7.97	17,891	9.57	19,244	7.56	19,198	(0.24)	18,518	(3.54)	18,068	(2.43)	18,998	5.15
Queen's	10,683	11,248	5.29	11,623	3.33	11,941	2.74	12,405	3.89	13,131	5.85	13,258	0.97	13,404	1.10	13,394	(0.07)	13,830	3.26
Toronto	36,624	39,264	7.21	40,546	3.27	42,935	5.89	45,280	5.46	46,484	2.66	45,855	(1.35)	45,043	(1.77)	46,660	3.59	48,388	3.70
Trent	2,185	2,407	10.16	2,642	9.76	2,573	(2.61)	2,993	16.32	3,291	9.96	3,538	7.51	3,615	2.18	3,262	(9.76)	3,408	4.48
Waterloo	13,383	14,210	6.18	14,778	4.00	15,627	5.75	16,488	5.51	17,490	6.08	18,555	6.09	18,818	1.42	18,794	(0.13)	19,391	3.18
Western	17,310	19,124	10.48	19,177	0.28	20,612	7.48	21,524	4.42	22,537	4.71	22,470	(0.30)	22,051	(1.86)	21,293	(3.44)	21,558	1.24
Wilfrid Laurier	6,769	6,417	(5.20)	6,201	(3.37)	6,074	(2.05)	5,836	(3.92)	6,397	9.61	6,353	(0.69)	6,065	(4.53)	5,979	(1.42)	6,137	2.64
Windsor	9,[illegible]09	8,963	(0.51)	8,580	(4.27)	9,252	7.83	9,792	5.84	11,300	15.40	11,598	2.64	10,931	(5.75)	10,153	(7.12)	10,385	2.29
York	16,8[illegible]2	19,281	14.35	19,664	1.99	21,233	7.98	22,113	4.14	24,013	8.59	25,015	4.17	23,655	(5.44)	22,838	(3.45)	22,695	(0.63)
Dominicain	na	na	na	na	na	na	na	102	na	288	182.35	304	5.56	307	0.99	257	(16.29)	245	(4.67)
Sub Total	**[illegible],926**	**183,492**	**3.71**	**186,581**	**1.68**	**196,396**	**5.26**	**207,384**	**5.99**	**220,472**	**6.31**	**223,811**	**1.51**	**218,248**	**(2.49)**	**214,228**	**(1.84)**	**218,624**	**2.05**
Ryerson	na	na	na	11,080	na	12,503	12.84	14,013	12.08	15,288	9.10	16,393	7.23	17,000	3.70	18,040	6.12	18,557	2.87
O.C.A.	1,005	1,048	4.28	935	(10.78)	1,207	29.09	1,712	41.84	2,093	22.25	2,241	7.07	2,293	2.32	2,433	6.11	2,567	5.51
Sub Total	**na**	**na**	**na**	**12,015**	**na**	**13,710**	**14.11**	**15,725**	**14.70**	**17,381**	**10.53**	**18,634**	**7.21**	**19,293**	**3.54**	**20,473**	**6.12**	**21,124**	**3.18**
TOTAL	**na**	**na**	**na**	**198,596**	**na**	**210,106**	**5.80**	**223,109**	**6.19**	**237,853**	**6.61**	**242,445**	**1.93**	**237,541**	**(2.02)**	**234,699**	**(1.20)**	**239,748**	**2.15**

NOTE: na = not available n/a = not applicable () = negative number

Adjustments have been made to nominally reported figures to account for the inconsistencies in reporting of interns and residents in years prior to 1977, particularly at Toronto, Ottawa, and Queen's for the years 1972 to 1976. An attempt has been made to minimize other differences in reporting year to year so as to provide comparability. In some instances, insufficient information was available to achieve this end. CAUTION SHOULD BE EXERCISED IN DRAWING CONCLUSIONS FROM YEAR-TO-YEAR CHANGES, PARTICULARLY PRIOR TO 1974. Detailed notes are appended to these tables.

APPENDIX TO ENROLMENT HEADCOUNT TABLES

1. General Notes:

    a. % change calculated using the previous year as base.

    b. Students in non-university types of programs are included for all years.

    c. From 1977 onward all enrolment has been reported consistently via the USIS-UAR combined financial and statistical reporting system. For earlier years various adjustments have had to be made both to the USIS file numbers and/or the Statistics Canada 81-204 publication numbers (the basic sources) to achieve a measure of comparability.

    d. Figures shown for Dominicain College include only students on the Ontario campus of this institution. In 1974 only eligible students were recorded (auditors, special students excluded).

    e. In 1978 Regis College became affiliated with the University of Toronto and its enrolment is now reported under that institution. Prior years data have been adjusted to reflect this inclusion. Also, all Toronto figures include O.I.S.E., Scarborough and Erindale and the church-related affiliates.

    f. Ottawa affiliates St. Paul and St. Augustine are included throughout. Since 1977 they have been included on the USIS-UAR system file. Prior to that time numbers have been extracted from the Statistics Canada 81-204 publications and included.

    g. Other institutions with church-related or other affiliates show these affiliates included with the parent institution. Inadvertent omission of small numbers from one or more affiliates could have occurred in the early years; there is no feasible method of checking whether an affiliate was included or not reported when using the aggregated data provided in 81-204. In general it has been assumed that they were included if not reported separately, but obvious omissions have been corrected.

Appendix to Enrolment Headcount Tables (continued)

2. Notes Related to Specific Years:

   a. 1976 (basic source USIS computer file)
   Ottawa has been adjusted to include affiliates, and to include interns and residents with undergraduates: the interns and residents were coded in such a way as to be indistinguishable on the USIS computer file from full-time graduate students. Statistics Canada (81-204) publication figures for interns and residents were used to make the adjustments (added to full-time undergraduate, subtracted from full-time graduate). Toronto was adjusted similarly for interns and residents: approximately 235 of the total 1,201 interns and residents were apparently coded correctly (to allow for identification and inclusion in the undergraduate category by the normal procedures). Queen's, Western and McMaster reported interns and residents correctly for 1976 and no adjustments were necessary. O.C.A. and Dominicain enrolments are shown as per UAR reports (not on USIS system until 1977).

   b. 1975 (basic source USIS computer file)
   Ottawa was adjusted to include its affiliates and interns and residents as undergraduates. Queen's and Toronto wereadjusted to include interns and residents as undergraduates. Western and McMaster interns and residents were reported correctly. O.C.A. and Dominicain are shown as per UAR reports.

   c. 1974 (basic source USIS computer file)
   Ottawa was adjusted to include its affiliates and interns and residents as undergraduates. Toronto interns and residents were also adjusted to undergraduate from graduate. Queen's interns and residents were added to the undergraduate category (not apparently on the USIS file for 1974). Western and McMaster interns and residents were correctly reported. O.C.A. and Dominicain are as shown in UAR reports. (Dominicain did not record special students/auditors at this time.)

   d. 1973 (basic source Statistics Canada 81-204 publication)
   Interns and residents and non-university type program enrolment were added into the undergraduate level. Dominicain data, for the Ontario campus only were not obtainable. The full-time undergraduate McMaster figure was adjusted to include McMaster Divinity. Apparently it was excluded from 81-204 reports (UAR figure for Divinity College was used). O.C.A. enrolment was taken from UAR reports/Statistical Summary.

Appendix to Enrolment Headcount Tables (continued)

e. 1972 (basic source Statistics Canada 81-204 publication)
Interns and residents and non-university type program enrolment were added to the undergraduate level. Dominicain data, for the Ontario campus only, were not obtainable. The McMaster full-time undergraduate figure was adjusted to include McMaster Divinity (source UAR/Statistical Summary). Apparently it was excluded from 81-204 reports. O.C.A. enrolment was taken from UAR/Statistical Summary.

f. 1971 (basic source Statistics Canada 81-204 publication)
See 1972 notes: McMaster interns and residents were also added. (They were not apparently reported in the 81-204 reports. The source was the Statistical Summary.) 129 students reported as part-time graduate special students in 81-204 publication for Brock University were added to the undergraduate category. This appeared to be more consistent with 1970 and 1972 reporting, and with other sources (UAR forms).

g. 1970 (basic source Statistics Canada 81-204 publication)
Non-university type program enrolment and students not preparing for degrees were added into the undergraduate level: "students not preparing" appeared to include interns and residents except at Western. Interns and residents at Western were therefore added (source UAR/Statistical Summary reports). Ryerson and O.C.A. data were from institutional correspondence files and UAR forms. Dominicain data, for Ontario campus only, were not obtainable. McMaster figures appeared (by comparison with UAR/Statistical Summary reports) to include McMaster Divinity and interns and residents but this cannot be positively verified. Part-time figures probably include some non-credit enrolment at several institutions. Statistics Canada 1971 publication notes that an effort had been made in that year to remove non-credit extension enrolment which resulted in artificially large reductions in part-time enrolment at some institutions between 1970 and 1971.

Table 1.3 Enrolment (Headcount) By Legal Status At Ontario Universities
Fall 1976 to Fall 1979

	FALL 1976	%	FALL 1977	%	FALL 1978	%	FALL 1979	%
1. FULL-TIME UNDERGRADUATE								
CANADIAN CITIZEN	117,226	86.9	117,734	89.0	114,497	89.1	115,205	89.2
LANDED IMMIGRANT	9,065	6.7	8,114	6.1	7,301	5.7	6,729	5.2
STUDENT & OTHER VISA	6,005	4.5	6,438	4.9	6,775	5.3	7,258	5.6
NOT REPORTED	2,545	1.9	30	0.0	3	0.0	2	0.0
TOTAL	**134,841**	**100.0**	**132,316**	**100.0**	**128,576**	**100.0**	**129,194**	**100.0**
2. PART-TIME UNDERGRADUATE								
CANADIAN CITIZEN	51,646	88.4	52,501	90.6	53,143	91.5	57,619	92.3
LANDED IMMIGRANT	4,659	8.0	4,631	8.0	4,162	7.2	3,788	6.1
STUDENT & OTHER VISA	497	0.9	724	1.2	771	1.3	1,005	1.6
NOT REPORTED	1,621	2.8	81	0.1	30	0.1	16	0.0
TOTAL	**58,423**	**100.0**	**57,937**	**100.0**	**58,106**	**100.0**	**62,428**	**100.0**
3. FULL-TIME GRADUATE								
CANADIAN CITIZEN	11,279	65.8	10,831	69.2	11,145	72.3	11,121	74.4
LANDED IMMIGRANT	2,698	15.7	2,029	13.0	1,517	9.8	1,184	7.9
STUDENT & OTHER VISA	2,876	16.8	2,795	17.8	2,754	17.9	2,646	17.7
NOT REPORTED	298	1.7	6	0.0	1	0.0	1	0.0
TOTAL	**17,151**	**100.0**	**15,661**	**100.0**	**15,417**	**100.0**	**14,952**	**100.0**

NOTES: a. Excludes Ryerson and OCA.
b. Includes students in undergraduate level non-university type of courses at all institutions from 1976 onwards.
c. Percentages may not total exactly due to rounding.

SOURCE: USIS 11010004 (unrounded).

Table 1.3 Enrolment (Headcount) By Legal Status At Ontario Universities
Fall 1976 to Fall 1979

	FALL 1976	%	FALL 1977	%	FALL 1978	%	FALL 1979	%
4. PART-TIME GRADUATE								
CANADIAN CITIZEN	10,152	82.4	10,459	84.8	10,458	86.2	10,585	87.8
LANDED IMMIGRANT	1,598	13.0	1,493	12.1	1,260	10.4	1,061	8.8
STUDENT & OTHER VISA	305	2.5	371	3.0	405	3.3	401	3.3
NOT REPORTED	266	2.2	11	0.1	4	0.0	3	0.0
TOTAL	**12,321**	**100.0**	**12,334**	**100.0**	**12,127**	**100.0**	**12,050**	**100.0**
5. ALL STUDENTS								
CANADIAN CITIZEN	190,303	85.4	191,525	87.8	189,243	88.3	194,530	89.0
LANDED IMMIGRANT	18,020	8.1	16,267	7.5	14,240	6.6	12,762	5.8
STUDENT & OTHER VISA	9,683	4.3	10,328	4.7	10,705	5.0	11,310	5.2
NOT REPORTED	4,730	2.1	128	0.1	38	0.0	22	0.0
TOTAL	**222,736**	**100.0**	**218,248**	**100.0**	**214,226**	**100.0**	**218,624**	**100.0**

NOTES: a. Excludes Ryerson and OCA.
b. Includes students in undergraduate level non-university type of courses at all institutions from 1976 onwards.
c. Percentages may not total exactly due to rounding.

SOURCE: USIS 11010004 (unrounded).

Table 1.4.1 Full-Time Enrolment By Field Of Study For Degrees And Diplomas At/Or Below The Bachelor's Or First Professional Degree Level In Ontario

	1955-56		1959-60		1964-65		1969-70		1974-75		1979-80	
Field	No.	% of Total	No.	% of Total	No.	% of Total	No.	% of Total	No.	% of Total	No.	% of Total
Arts & Sc.							[2]		[2]		[2]	
Arts	-	-	-	-	20,667	45.6	45,256	49.5	56,678	46.5	51,197	40.2
Pure Sc.	-	-	-	-	5,719	12.6	12,581	13.7	15,567	12.8	15,163	11.9
Sub Total	**8,237**	**39.4**	**12,448**	**46.1**	**26,386**	**58.2**	**57,837**	**63.2**	**72,245**	**59.3**	**66,360**	**52.1**
Career - Oriented												
Agriculture	400	1.9	553	2.0	844	1.9	951	1.0	1,170	1.0	1,125	1.0
Comm. & Bus. Adm.	1,158	5.5	1,547	5.7	2,379	5.2	3,277	3.6	6,765	5.6	11,648	9.2
Environ. Studies	-	-	-	-	-	-	175	0.2	673	0.5	1,024	0.8
Fine & App. Arts	-	-	-	-	-	-	502	0.5	2,919	2.4	3,048	2.4
Household Sc.	231	1.1	248	0.9	434	1.0	867	0.9	2,259	1.8	1,537	1.2
Journalism	71	0.3	70	0.3	137	0.3	336	0.4	941	0.8	1,016	0.8
Landscape[1] Arch.	-	-	-	-	-	-	101	0.1	224	0.2	260	0.2
Library Sc.	46	0.2	68	0.2	140	0.3	272	0.3	-	-	-	-
Music	145	0.7	95	0.3	221	0.5	676	0.7	1,582	1.3	1,451	1.1
Phys. & Health Ed.	236	1.1	411	1.5	721	1.6	3,128	3.4	5,200	4.3	5,420	4.2
Secretarial Sc.	104	0.5	102	0.4	133	0.3	148	0.2	755	0.6	779	0.6
Social Work	92	0.4	107	0.4	173	0.4	367	0.4	687	0.6	942	0.7
Theology	1,296	6.2	1,370	5.1	1,225	2.7	970	1.2	648	0.5	556	0.4
Sub Total	**3,779**	**18.0**	**4,571**	**16.9**	**6,407**	**14.1**	**12,190**	**13.3**	**23,823**	**19.6**	**28,906**	**22.7**
Professional												
Architecture	190	0.9	157	0.6	228	0.5	468	0.5	1,180	1.0	1,158	0.9
Dentistry	386	1.8	458	1.7	480	1.1	676	0.7	692	0.6	739	0.6
Education[3]	407	1.9	535	2.0	820	1.8	2,933	3.2	3,266	2.7	3,523	2.8
Engin. & App. Sc.	3,545	17.0	4,433	16.4	5,221	11.5	9,050	9.9	10,131	8.3	12,745	10.0
Forestry	86	0.4	89	0.3	97	0.2	261	0.3	507	0.4	547	0.4
Law	1,087	5.2	1,203	4.4	1,375	3.0	2,414	2.6	3,549	2.9	3,809	3.0
Medicine	1,658	7.9	1,673	6.2	1,768	3.9	1,867	2.0	2,254	1.8	2,364	1.9
Nursing	625	3.0	647	2.4	1,069	2.4	1,517	1.7	1,909	1.6	2,000	1.6
Optometry	26	0.1	27	0.1	97	0.2	161	0.2	228	0.2	236	0.2
Pharmacy	352	1.7	332	1.2	386	0.8	518	0.6	628	0.5	648	0.5
Physio & Occ. Therapy	238	1.1	168	0.6	293	0.6	441	0.5	681	0.6	796	0.6
Vet. Med.	273	1.3	287	1.2	355	0.8	280	0.3	441	0.4	539	0.4
Sub Total	**8,873**	**42.5**	**10,009**	**37.0**	**12,189**	**26.9**	**20,634**	**22.6**	**25,466**	**20.9**	**29,105**	**22.9**
Other	-	-	-	-	387	0.8	823	0.9	319	0.3	2,859	2.3
Total Prof. & Career - Oriented	12,652	60.5	14,580	53.9	18,596	41.0	32,824	35.9	49,289	40.5	58,000	45.6
Grand Total	**20,889**	**100.0**	**27,028**	**100.0**	**45,369**	**100.0**	**91,404**	**100.0**	**121,853**	**100.0**	**127,230**	**100.0**

Percentages may not total exactly due to rounding.

NOTES:

1. From 1955/56 to 1970/71 enrolment in degree and diploma programs were reported together. 1971/72 to 1979/80 only Bachelor and 1st professional degrees have been reported in this table.

2. Enrolment includes students preparing for a bachelor's degree only at institutions offering both bachelor and master's degrees.

3. Some graduate enrolment was included in undergraduate enrolment in social work and theology prior to 1962/63.

4. Commerce program at U of T was reported under Arts & Sc. til 1978/79. York's program was reported under Arts & Sc. till 1979/80 but both have been included under Commerce.

5. In addition to provincially assisted institutions the following institutions' enrolments have been included: Centre for Christian Studies, Dominicain, Ontario Bible College, Ontario Teacher Education College, R.M.C., Richmond College and Ryerson. Ryerson began reporting in 1972/73 while OTEC began 1975/76.

FOOTNOTE:

1. 1969/70 - 1978/79 Landscape Architecture figures provided by institutions and disaggregated from Architecture.

2. 1969/70 - 1979/80 includes Arts & Science not disaggregated.

3. York's education program reported under Arts & Science.

SOURCE: 1955/56 - 1960/61 Dominion Bureau of Statistics Survey of Higher Education.
1961/62 - 1977/78 Statistics Canada Catalogue 81-204.
1979/80 enrolment provided by Statistics Canada.

Table 1.4.2 Part-Time Enrolment By Field Of Study For Degrees And Diplomas At/Or Below The Bachelor's Or First Professional Degree Level In Ontario

Field	1964-65 No.	1964-65 % of Total	1969-70 No.	1969-70 % of Total	1974-75 No.	1974-75 % of Total	1979-80 No.	1979-80 % of Total
Arts & Science			[1]		[1]		[1]	
Arts	14,668	79.7	29,990	91.2	35,281	82.8	27,439	67.0
Pure Science	138	0.8	675	2.1	1,720	4.0	2,653	6.5
Sub Total	**14,806**	**80.5**	**30,665**	**93.3**	**37,001**	**86.8**	**30,092**	**73.5**
Career - Oriented								
Agriculture	3	0.0	7	0.0	23	0.0	28	0.1
Commerce & Bus. Adm.	1,265	6.9	1,303	4.0	1,951	4.6	3,568	8.7
Environ. Studies	-	-	14	0.0	81	0.2	109	0.3
Fine & App. Arts	-	-	24	0.1	583	1.4	1,068	2.6
Household Sc.	2	0.0	30	0.1	275	0.6	159	0.4
Journalism	12	0.1	12	0.0	52	0.1	72	0.2
Landscape Arch.	-	-	1	0.0	1	0.0	17	0.0
Library Sc.	41	0.2	62	0.2	-	-	-	-
Music	19	0.1	5	0.0	203	0.5	302	0.7
Phys. & Health Ed.	99	0.5	9	0.0	235	0.6	346	0.9
Secretarial Sc.	1	0.0	-	-	85	0.2	240	0.6
Social Work	5	0.0	2	0.0	349	0.8	257	0.6
Theology	24	0.1	50	0.2	446	1.1	63	0.2
Sub Total	**1,471**	**8.0**	**1,519**	**4.6**	**4,284**	**10.1**	**6,229**	**15.2**
Professional								
Architecture	-	-	-	-	67	0.2	119	0.3
Dentistry	8	0.0	12	0.0	-	-	2	0.0
Education	160	0.9	154	0.5	330	0.8	2,053	5.0
Engin. & App. Sc.	33	0.2	81	0.3	622	1.5	689	1.7
Forestry	3	0.0	-	-	1	0.0	4	0.0
Law	2	0.0	1	0.0	43	0.1	72	0.2
Medicine	1	0.0	-	-	1	0.0	1	0.0
Nursing	202	1.1	391	1.2	244	0.6	326	0.8
Optometry	-	-	2	0.0	-	-	-	-
Pharmacy	17	0.1	-	-	-	-	-	-
Physio & Occ. Therapy	-	-	1	0.0	16	0.0	87	0.2
Vet. Med.	-	-	-	-	-	-	8	0.0
Sub Total	**426**	**2.3**	**642**	**2.0**	**1,324**	**3.1**	**3,361**	**8.2**
Other	1,702	9.3	60	0.2	11	0.0	1,248	3.1
Total Prof.& Career-Oriented	1,897	10.3	2,161	6.6	5,608	13.2	9,590	23.4
Grand Total	**18,405**	**100.0**	**32,885**	**100.0**	**42,620**	**100.0**	**40,930**	**100.0**

Percentages may not total exactly due to rounding.

NOTES:
1. From 1962/63 to 1969/70 Diploma and Certificate enrolment is included. 1970/71 to 1979/80 only Bachelor's and 1st Professional Degree enrolment is reported in this table.
2. Commerce Program at U of T was reported under Arts & Sc until 1979/80 but has been included under Commerce. York's program was reported under Arts & Sc. till 1979/80 but has been included under Commerce.

FOOTNOTE:

[1] Includes Arts & Sc. not disaggregated.

SOURCE: Statistics Canada Catalogue 81-204 for 1962/63 to 1977/78.
1979/80 special tabulations provided by Statistics Canada.

Table 1.4.3 Full-Time Graduate Enrolment in Ontario.

	1964-65		1969-70		1974-75		1979-80	
Field	No.	% of Total	No.	% of Total	No.	% of Total	No.	% of Total
Arts & Science								
Arts	2,001	38.7	4,761	35.4	5,432	40.2	5,099	36.0
Pure Science	1,267	24.5	2,972	22.1	2,325	17.2	2,442	17.2
Sub Total	**3,268**	**63.2**	**7,733**	**57.6**	**7,757**	**57.4**	**7,541**	**53.2**
Career - Oriented								
Agriculture	124	2.4	158	1.2	13	0.1	151	1.2
Commerce & Bus. Adm.	411	8.0	1,123	8.4	1,298	9.6	1,671	11.8
Environ. Studies	-	-	-	-	-	-	304	2.1
Fine & App. Arts	-	-	-	-	97	0.7	118	0.8
Household Sc.	10	0.2	40	0.3	-	-	41	0.3
Journalism	-	-	-	-	19	0.1	50	0.4
Landscape Arch.	-	-	-	-	-	-	29	0.2
Library Sc.	1	0.1	211	1.6	381	2.8	330	2.3
Music	16	0.3	53	0.4	67	0.5	111	0.8
Phys. & Health Ed.	8	0.2	40	0.3	66	0.5	176	1.2
Secretarial Sc.	-	-	-	-	-	-	-	-
Social Work	43	0.8	426	3.2	492	3.6	511	3.6
Theology	87	1.7	159	1.2	497	3.7	117	0.8
Sub Total	**700**	**13.5**	**2,210**	**16.5**	**2,930**	**21.7**	**3,609**	**25.5**
Professional								
Architecture	18	0.4	59	0.4	15	0.1	8	0.1
Dentistry	31	0.6	51	0.4	20	0.1	15	0.1
Education	80	1.6	526	3.9	734	5.4	776	5.5
Engin. & App. Sc.	682	13.2	1,712	12.7	1,417	10.5	1,197	8.4
Forestry	15	0.3	33	0.2	25	0.2	32	0.2
Law	13	0.3	25	0.2	56	0.4	61	0.4
Medicine	300	5.8	522	3.9	345	2.6	457	3.2
Nursing	10	0.2	14	0.1	31	0.2	47	0.3
Optometry	-	-	-	-	4	0.1	2	0.0
Pharmacy	11	0.2	26	0.2	15	0.1	12	0.1
Physio & Occ. Therapy	22	0.4	29	0.2	9	0.1	54	0.4
Vet. Med.	21	0.4	68	0.5	-	-	49	0.4
Sub Total	**1,203**	**23.3**	**3,065**	**22.8**	**2,671**	**19.7**	**2,710**	**19.1**
Other	253	4.9	421	3.1	169	1.2	315	2.2
Total Prof.& Career-Oriented	1,903	36.8	5,275	39.3	5,601	41.4	6,319	44.6
Grand Total	**5,171**	**100.0**	**13,429**	**100.0**	**13,527**	**100.0**	**14,175**	**100.0**

Percentages may not total exactly due to rounding.

NOTES: 1. Master's and Ph.D. figures are added together to arrive at a single total.

2. Theology excludes Religious Studies which is included under Arts.

SOURCE: 1964/65 to 1977/78 Statistics Canada Catalogue 81-204.
1979/80 Statistics Canada tabulations.

Table 1.4.4 Part-Time Graduate Enrolment in Ontario.

	1964-65		1969-70		1974-75		1979-80	
Field	No.	& of Total	No.	$ of Total	No.	$ of Total	No.	% of Total
Arts & Science								
Arts	664	35.3	1,972	28.2	2,772	29.9	2,500	23.8
Pure Science	83	4.4	267	3.8	630	6.8	605	5.7
Sub Total	**747**	**39.8**	**2,239**	**32.0**	**3,402**	**36.6**	**3,105**	**29.5**
Career - Oriented								
Agriculture	16	0.9	2	0.1	1	0.1	37	0.4
Commerce & Bus. Adm.	387	20.6	1,300	18.6	1,254	13.5	1,774	16.9
Environ. Studies	-	-	4	0.1	-	-	159	1.5
Fine & App. Arts	-	-	-	-	38	0.4	40	0.4
Household Sc.	-	-	4	0.1	-	-	13	0.1
Journalism	-	-	-	-	2	0.1	11	0.1
Landscape Arch.	-	-	-	-	-	-	4	0.0
Library Sc.	10	0.5	137	2.0	117	1.3	147	1.4
Music	9	0.5	15	0.2	22	.2	52	0.5
Phys. & Health Ed.	1	0.1	50	0.7	50	0.5	81	0.8
Secretarial Sc.	-	-	-	-	-	-	-	-
Social Work	17	0.9	29	0.4	43	0.5	137	1.3
Theology	76	4.0	100	1.4	51	0.5	158	1.5
Sub Total	**516**	**27.5**	**1,641**	**23.4**	**1,578**	**17.0**	**2,613**	**24.8**
Professional								
Architecture	-	-	10	0.1	4	0.1	3	0.0
Dentistry	9	0.5	3	0.1	15	0.2	5	0.1
Education	283	15.1	2,274	32.5	2,824	30.4	3,296	31.3
Engin. & App. Sc.	148	7.9	510	7.3	1,055	11.4	999	9.5
Forestry	2	0.1	4	0.1	13	0.1	9	0.1
Law	31	1.6	32	0.5	162	1.7	183	1.7
Medicine	18	1.0	28	0.4	65	0.7	97	0.9
Nursing	-	-	-	-	16	0.2	49	0.5
Optometry	-	-	-	-	1	0.1	4	0.0
Pharmacy	5	0.3	2	0.1	3	0.1	5	0.1
Physio & Occ. Therapy	-	-	-	-	-	-	3	0.0
Vet. Med.	-	-	11	0.2	-	-	15	0.1
Sub Total	**496**	**26.4**	**2,874**	**41.0**	**4,158**	**44.8**	**4,668**	**44.4**
Other	120	6.4	248	3.5	147	1.6	133	1.3
Total Prof.& Career-Oriented	1,012	53.9	4,515	64.5	5,736	61.8	7,281	69.2
Grand Total	**1,879**	**100.0**	**7,002**	**100.0**	**9,285**	**100.0**	**10,519**	**100.0**

Percentages may not total exactly due to rounding.

NOTES: 1. Master's and Ph.D. figures are added together to arrive at a single total.

2. Theology excludes Religious Studies which is included under Arts.

SOURCE: 1964/65 to 1977/78 Statistics Canada Catalogue 81-204.
1979/80 Statistics Canada tabulations.

Table 1.5 Enrolment (Headcount) By Age Group At Ontario Universities
Fall 1972 to Fall 1979

	FALL 1972	%	FALL 1973	%	FALL 1974	%	FALL 1975	%	FALL 1976	%	FALL 1977	%	FALL 1978	%	FALL 1979	%
1. FULL-TIME UNDERGRADUATE																
19 AND UNDER	30,826	28.4	31,415	27.5	33,239	27.3	33,683	26.1	34,522	25.6	33,012	25.0	32,127	25.0	32,479	25.1
20 - 24	66,892	61.6	70,391	61.6	75,501	61.9	80,566	62.4	85,039	63.1	83,212	62.9	81,096	63.1	81,325	62.9
25 - 29	7,781	7.2	8,244	7.2	8,869	7.3	9,681	7.5	10,470	7.8	10,672	8.1	10,090	7.8	10,071	7.8
30 - 34	1,551	1.4	1,748	1.5	1,896	1.6	2,218	1.7	2,555	1.9	3,016	2.3	3,038	2.4	2,987	2.3
35 - 39	598	0.6	667	0.6	703	0.6	768	0.6	859	0.6	962	0.7	964	0.7	1,045	0.8
40 - 44	287	0.3	327	0.3	321	0.3	401	0.3	385	0.3	391	0.3	414	0.3	477	0.3
45 - 49	135	0.1	148	0.1	155	0.1	190	0.2	227	0.2	244	0.2	248	0.2	220	0.2
50 AND OVER	118	0.1	121	0.1	199	0.1	166	0.1	184	0.1	301	0.2	199	0.2	208	0.2
NOT REPORTED	485	0.4	1,124	1.0	1,140	0.9	1,478	1.1	600	0.4	506	0.4	400	0.3	412	0.3
TOTAL	**108,673**	**100.0**	**114,185**	**100.0**	**121,943**	**100.0**	**129,151**	**100.0**	**134,841**	**100.0**	**132,316**	**100.0**	**128,576**	**100.0**	**129,194**	**100.0**
2. PART-TIME UNDERGRADUATE																
19 AND UNDER	636	1.3	710	1.4	830	1.5	980	1.6	912	1.6	1,067	1.8	966	1.7	1,006	1.6
20 - 24	12,057	25.1	12,538	24.2	13,057	23.4	13,286	22.4	13,022	22.3	13,302	23.0	13,484	23.2	14,163	22.7
25 - 29	13,993	29.1	15,094	29.1	16,258	29.1	16,971	28.3	16,116	27.6	14,419	24.9	13,737	23.6	14,130	22.6
30 - 34	8,008	16.7	8,909	17.2	9,630	17.3	10,244	17.1	10,994	18.8	11,282	19.5	11,504	19.8	12,559	20.1
35 - 39	4,850	10.1	5,317	10.2	5,841	10.5	6,248	10.4	6,585	11.3	6,797	11.7	7,420	12.8	8,286	13.3
40 - 44	3,202	6.7	3,539	6.8	3,767	6.8	3,945	6.6	4,089	7.0	4,023	6.9	4,055	7.0	4,660	7.5
45 - 49	2,045	4.3	2,210	4.3	2,340	4.2	2,591	4.3	2,648	4.5	2,694	4.7	2,608	4.5	2,942	4.7
50 AND OVER	1,841	3.8	2,029	3.9	2,369	4.3	2,651	4.4	2,941	5.0	3,366	5.8	3,411	5.9	3,844	6.2
NOT REPORTED	1,393	2.9	1,548	3.0	1,694	3.0	2,873	4.8	1,116	1.9	987	1.7	891	1.5	838	1.3
TOTAL	**48,025**	**100.0**	**51,894**	**100.0**	**55,786**	**100.0**	**59,889**	**100.0**	**58,423**	**100.0**	**57,937**	**100.0**	**58,106**	**100.0**	**62,428**	**100.0**

NOTES:

a. Excludes Ryerson and OCA.

b. Includes students in undergraduate level non-university type courses at all institutions from Fall 1976 onwards.

c. Percentages may not total exactly due to rounding.

d. Interns and Residents were not reported consistently prior to 1977. They are included with undergraduate or graduate depending on the institution or, in some early years, excluded altogether (1974 and prior, for some institutions only).

e. Part-time prior to 1974 excludes Queen's who did not report on the computerized file.

f. Ottawa excludes affiliates St. Paul and St. Augustine prior to 1977.

g. Adjustments for inclusions/exclusions cannot be made for tables showing demographic or other personal characteristics, which must be compiled from the computer files of individual student records. Detailed notes for each year indicating inclusions/exclusions are appended to the enrolment by institution tables, where all adjustments possible were made. For this reason total enrolments shown on these tables differ slightly from the institution tables.

SOURCE: USIS 11010001 (unrounded)

Table 1.5 Enrolment (Headcount) By Age Group At Ontario Universities
Fall 1972 to Fall 1979

	FALL 1972	%	FALL 1973	%	FALL 1974	%	FALL 1975	%	FALL 1976	%	FALL 1977	%	FALL 1978	%	FALL 1979	%
3. FULL-TIME GRADUATE																
19 AND UNDER	3	0.0	1	0.0	6	0.0	6	0.0	8	0.1	5	0.0	6	0.0	0	0.0
20 - 24	5,441	33.8	5,488	33.7	5,558	33.7	5,728	32.5	5,451	31.8	5,102	32.6	4,939	32.0	4,588	30.7
25 - 29	6,758	42.0	6,888	42.3	6,992	42.3	7,559	42.8	7,311	42.6	6,519	41.6	6,382	41.4	6,268	41.9
30 - 34	2,258	14.0	2,235	13.7	2,314	14.0	2,447	13.9	2,625	15.3	2,458	15.7	2,496	16.2	2,461	16.5
35 - 39	777	4.8	793	4.9	740	4.5	799	4.5	799	4.7	813	5.2	784	5.1	857	5.7
40 - 44	350	2.2	329	2.0	344	2.1	331	1.9	337	2.0	338	2.2	373	2.4	394	2.6
45 - 49	180	1.1	178	1.1	178	1.1	185	1.1	185	1.1	181	1.2	178	1.2	180	1.2
50 AND OVER	112	0.7	109	0.7	121	0.7	128	0.7	141	0.8	163	1.0	181	1.2	183	1.2
NOT REPORTED	220	1.4	259	1.6	263	1.6	467	2.7	294	1.7	82	0.5	78	0.5	21	0.1
TOTAL	**16,099**	**100.0**	**16,280**	**100.0**	**16,516**	**100.0**	**17,650**	**100.0**	**17,151**	**100.0**	**15,661**	**100.0**	**15,417**	**100.0**	**14,952**	**100.0**
4. PART-TIME GRADUATE																
19 AND UNDER	1	0.0	1	0.0	5	0.1	4	0.0	9	0.1	5	0.0	5	0.0	0	0.0
20 - 24	910	10.0	1,031	10.3	960	8.9	1,120	9.5	1,020	8.3	934	7.6	894	7.4	907	7.5
25 - 29	3,265	36.0	3,592	35.9	3,882	36.2	4,329	36.5	4,409	35.8	4,126	33.5	4,008	33.0	3,824	31.7
30 - 34	2,201	24.3	2,541	25.4	2,752	25.6	2,902	24.5	3,175	25.8	3,454	28.0	3,470	28.6	3,563	29.6
35 - 39	1,137	12.5	1,246	12.5	1,351	12.6	1,556	13.1	1,683	13.7	1,769	14.3	1,773	14.6	1,852	15.4
40 - 44	712	7.8	717	7.2	758	7.1	781	6.6	861	7.0	892	7.2	894	7.4	908	7.5
45 - 49	402	4.4	443	4.4	484	4.5	497	4.2	553	4.5	596	4.8	507	4.2	497	4.1
50 AND OVER	308	3.4	308	3.1	353	3.3	367	3.1	439	3.6	460	3.7	499	4.1	453	3.8
NOT REPORTED	137	1.5	126	1.3	188	1.8	302	2.6	172	1.4	98	0.8	77	0.6	46	0.4
TOTAL	**9,073**	**100.0**	**10,005**	**100.0**	**10,733**	**100.0**	**11,858**	**100.0**	**12,321**	**100.0**	**12,334**	**100.0**	**12,127**	**100.0**	**12,050**	**100.0**

NOTES:

a. Excludes Ryerson and OCA.

b. Includes students in undergraduate level non-university type courses at all institutions from Fall 1976 onwards.

c. Percentages may not total exactly due to rounding.

d. Interns and Residents were not reported consistently prior to 1977. They are included with undergraduate or graduate depending on the institution or, in some early years, excluded altogether (1974 and prior, for some institutions only).

e. Part-time prior to 1974 excludes Queen's who did not report on the computerized file.

f. Ottawa excludes affiliates St. Paul and St. Augustine prior to 1977.

g. Adjustments for inclusions/exclusions cannot be made for tables showing demographic or other personal characteristics, which must be compiled from the computer files of individual student records. Detailed notes for each year indicating inclusions/exclusions are appended to the enrolment by institution tables, where all adjustments possible were made. For this reason total enrolments shown on these tables differ slightly from the institution tables.

SOURCE: USIS 11010001 (unrounded)

Table 1.5 Enrolment (Headcount) By Age Group At Ontario Universities
Fall 1972 to Fall 1979

	FALL 1972	%	FALL 1973	%	FALL 1974	%	FALL 1975	%	FALL 1976	%	FALL 1977	%	FALL 1978	%	FALL 1979	%
5. ALL STUDENTS																
19 AND UNDER	31,466	17.3	32,127	16.7	34,080	16.6	34,673	15.9	35,451	15.9	34,089	15.6	33,134	15.5	33,488	15.3
20 - 24	85,300	46.9	89,448	46.5	95,076	46.4	100,800	46.1	104,532	46.9	102,550	47.0	100,413	46.9	100,980	46.2
25 - 29	31,797	17.5	33,818	17.6	36,001	17.6	38,540	17.6	38,306	17.2	35,736	16.4	34,217	16.0	34,293	15.7
30 - 34	14,018	7.7	15,433	8.0	16,592	8.1	17,811	8.2	19,349	8.7	20,210	9.3	20,508	9.6	21,570	9.9
35 - 39	7,362	4.0	8,023	4.2	8,635	4.2	9,371	4.3	9,926	4.5	10,341	4.7	10,941	5.1	12,040	5.5
40 - 44	4,551	2.5	4,912	2.6	5,190	2.5	5,458	2.5	5,672	2.6	5,644	2.6	5,736	2.7	6,409	2.9
45 - 49	2,762	1.5	2,979	1.5	3,157	1.5	3,463	1.6	3,613	1.6	3,715	1.7	3,541	1.7	3,839	1.8
50 AND OVER	2,379	1.3	2,567	1.3	2,962	1.5	3,312	1.5	3,705	1.7	4,290	2.0	4,290	2.0	4,688	2.1
NOT REPORTED	2,235	1.2	3,057	1.6	3,285	1.6	5,120	2.3	2,182	1.0	1,673	0.8	1,446	0.7	1,317	0.6
TOTAL	**181,870**	**100.0**	**192,364**	**100.0**	**204,978**	**100.0**	**218,548**	**100.0**	**222,736**	**100.0**	**218,248**	**100.0**	**214,226**	**100.0**	**218,624**	**100.0**

NOTES:

a. Excludes Ryerson and OCA.
b. Includes students in undergraduate level non-university type courses at all institutions from Fall 1976 onwards.
c. Percentages may not total exactly due to rounding.
d. Interns and Residents were not reported consistently prior to 1977. They are included with undergraduate or graduate depending on the institution or, in some early years, excluded altogether (1974 and prior, for some institutions only).
e. Part-time prior to 1974 excludes Queen's who did not report on the computerized file.
f. Ottawa excludes affiliates St. Paul and St. Augustine prior to 1977.
g. Adjustments for inclusions/exclusions cannot be made for tables showing demographic or other personal characteristics, which must be compiled from the computer files of individual student records. Detailed notes for each year indicating inclusions/exclusions are appended to the enrolment by institution tables, where all adjustments possible were made. For this reason total enrolments shown on these tables differ slightly from the institution tables.

SOURCE: USIS 11010001 (unrounded)

ENROLMENT FORECASTS

Table 2.1 is drawn from a study published by Statistics Canada in February, 1979 entitled The Class of 2001. The Canadian population will continue to grow through the period 2020-2030, but the profile will change dramatically. The share represented by children and youth aged 24 years and under will decline from 42.1% of the population in 1981 to an estimated 33.5% in 2001. This decline in the share of population will be accompanied by a drop in the absolute numbers. By contrast, the shares of the population represented by middle aged (25 - 64 year olds) and senior citizens will rise from 48.4% and 9.5% respectively in 1981 to 54.6% and 11.9% respectively in 2001.

There is a two fold message for educators. First, dependency will shift from children to seniors and this is expected to heighten the competition for public resources. Secondly, if educational programming is to respond to the needs of the growing parts of the population, its nature may need to change. Programs now are primarily oriented to youth who have the opportunity to devote several years to full-time study before embarking on a career.

The universities of Ontario have already begun to penetrate the market of 25 year olds and over. Of the 218,839 people taking one or more credit courses in the fall term, 1979, 82,839 or 38% were aged 25 years or older. If the summer school and non-credit course registrations were included, the number and proportions would be higher. In 1979-80, there were approximately 125,410 registrations in non-credit courses. In the spring and summer session 1979, approximately 96,596 people enrolled in one or more credit courses. However, because most of the participation by adults aged 25 and over is in part-time programs, the full-time equivalent enrolment upon which formula financing is based is dominated by youth who typically study full-time.*

The numbers of youthful enrollees may be heavily influenced by a demographically-based shrinkage in the 18 - 24 year old population which is expected to peak in Ontario in 1983 and decline through 1996 by 16.9%. (See Table 2.2) However, post-secondary enrolments are impossible to forecast with confidence. As the experience of the late 1970's has shown, changes in participation rates can offset demographic trends.

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* In the Fall term, 1979, enrolment in credit courses by persons 25 years and older represented approximately 23% of the total fall term full-time equivalent enrolment.

In the late 1970's, enrolment declined in spite of rising numbers of youth in the population aged 18 - 24 years. Among the non-demographic factors affecting enrolment are changing participation rates, employment prospects, the educational requirements of jobs, and the availability of space in sought-after programs.

Another important element introducing uncertainty in predictions is the fact that eleven percent of all enrollees are either landed immigrants or visa students. The number of landed immigrants has declined in the mid to late 1970's presumably as the number of immigrants has declined in keeping with Federal immigration policies; however, the number of visa students has continued to grow. Both of these factors are largely independent of Ontario's demography.

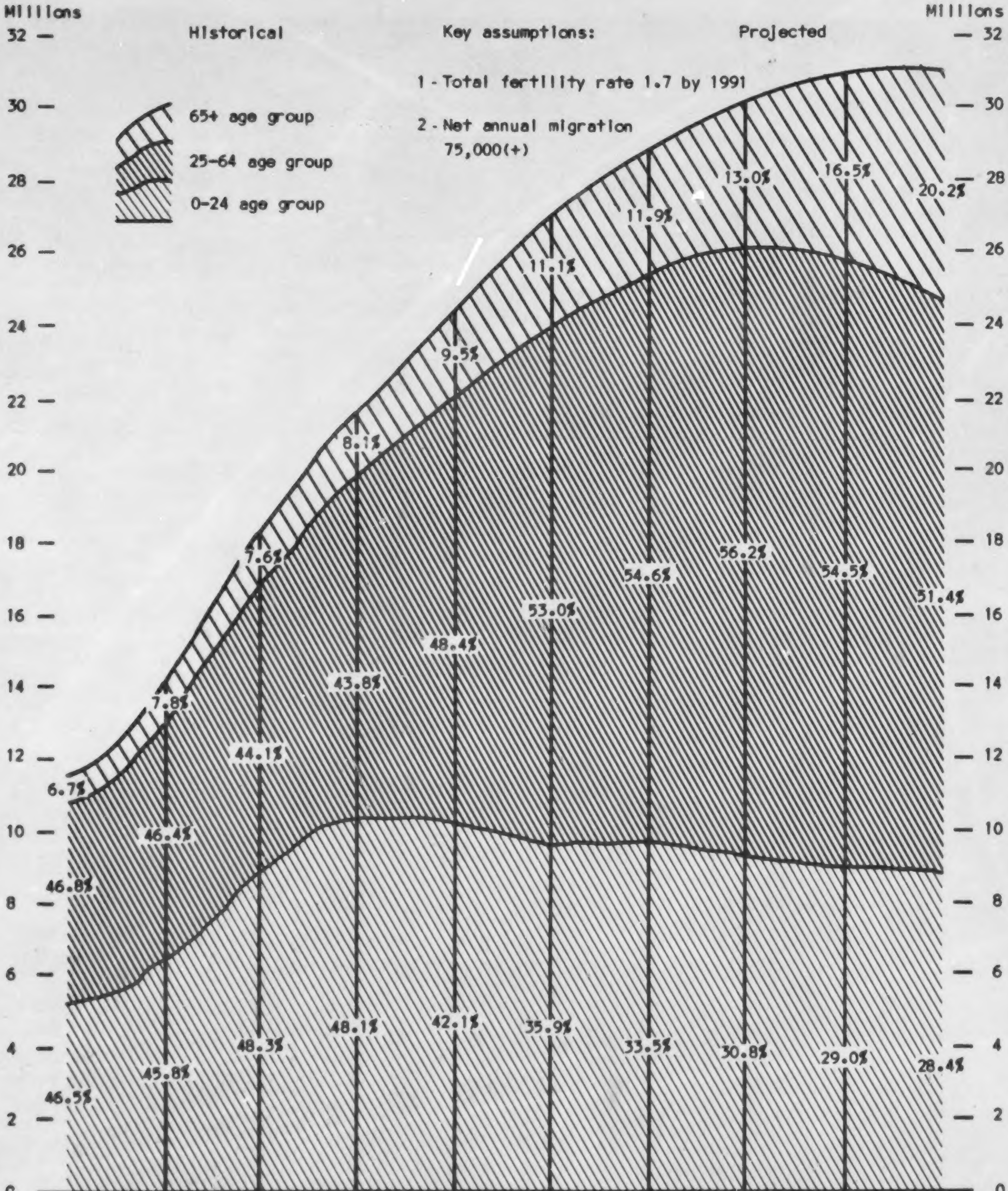
It is possible that a combination of factors such as rising numbers of middle-aged participants, rising participation rate on the part of youth and immigration policies which increase the number of immigrants would combine to offset the expected 16.9% shrinkage in the 18 - 24 year population. Nevertheless, the possibility of a shrinkage must not be overlooked.

A 1979 projection by the Council of Ontario Universities Committee on Enrolment Statistics and Projections indicates a number of possible alternative projections. Table 2.3 gives the combined projections. The projections considered "most likely" show that on the more optimistic side, enrolments could rise from 171,000 F.T.E.'s in 1978-79 to 190,000 in 1985-86 and fall back to 171,000 F.T.E.'s in 1991-92. However, the possibility exists of a gradual fall from 171,000 F.T.E.'s in 1978-79 to 141,000 in 1991-92 a decline of 17.5% from the 1978-79 base.

The three Canada-wide scenarios prepared for university-level enrolments (F.T.E.) by the Ministry of State for Science and Technology are shown in Table 2.4. The three scenarios range from declines of 7.2% and 3.2% to a rise of 2.9% in F.T.E. enrolment between 1977-78 and 1990-91.

No single definitive projection is offered here. For those who tend to see opportunities, there are many grounds for optimism. In a society increasingly dependent on the intellect, the demand for people with highly developed skills should not diminish but rather flourish.

Table 2.1 Total Population and Percentage Distribution in Censal Years by Selected Age Groups, 1941 to 1976, and Projected to 2031



Source: The Class of 2001, The School Age Population - Trends and Implications - 1961 to 2001, Statistics Canada 4-2251-517

Table 2.2 Turning Points in Post-Secondary Age Groups By Province

Province	Post-Secondary Age Group	Populations 1961	Projected Populations 1978	% Change From 1961 to 1978	Peak Year	Projected Population Peak	% Change From 1978 to Peak	Trough Year	Projected Population Trough	% Change From Peak to Trough	Projected Population 2001	% Change From Trough to 2001
		'000	'000	%		'000	%		'000	%	'000	%
Newfoundland	17 - 23	49.0	83.4	+70.2	1983	89.0	+6.7	1998	65.5	-26.4	66.0	+0.8
Prince Edward Island	18 - 24	9.5	16.5	+73.7	1983	18.6	+12.7	1997	13.4	-28.0	13.9	+3.7
Nova Scotia	18 - 24	72.9	115.5	+58.4	1982	120.5	+4.3	1997	89.2	-26.0	92.8	+4.0
New Brunswick	18 - 24	56.4	98.2	+74.1	1982	103.1	+5.0	1997	78.3	-24.2	80.5	+2.8
Quebec	17 - 23	565.5	910.7	+61.0	1980	915.2	+0.5	1994	619.3	-32.3	669.2	+8.1
Ontario	18 - 24	548.6	1,111.9	+102.7	1983	1,192.9	+7.3	1996	990.8	-16.9	1,055.0	+6.5
Manitoba	18 - 24	85.3	137.9	+61.7	1981	140.7	+2.0	1997	109.6	-22.1	112.6	+2.7
Saskatchewan	18 - 24	83.7	128.8	+53.9	1982	134.9	+4.7	1996	99.1	-26.5	103.1	+4.0
Alberta	18 - 24	126.2	281.7	+123.2	1983	300.9	+6.8	1992	267.1	-11.2	298.6	+11.8
British Columbia	18 - 24	136.7	326.6	+138.9	1983	351.3	+7.6	1995	300.2	-14.6	326.9	+8.9
Canada	18 - 24	1,712.6	3,201.0	+86.9	1982	3,362.0	+5.0	1996	2,653.2	-21.1	2,823.4	+6.4

NOTE: All projected data are taken from projection no. 3 which is not necessarily the best projection for all provinces. Projection no. 3 is used merely for illustrative purposes.

SOURCE: The Class of 2001, The School Age Population - Trends and Implications - 1961 to 2001, Statistics Canada 4-2251-517

Table 2.3 Combined Projections (Thousands)

	Undergraduate FTE				Graduate FTE				Total FTE			
	Likely		Outer Limits		Likely		Outer Limits		Likely		Outer Limits	
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
1978-79	151		151		20		20		171		171	
1982-83	148	166	141	174	19	21	18	22	167	187	159	196
1985-86	145	169	135	179	19	21	18	23	164	190	153	202
1988-89	134	161	124	174	17	20	16	21	151	181	140	195
1991-92	125	152	113	162	16	19	15	20	141	171	128	182

NOTE: Part-time figures have been converted to full-time as follows:

Undergraduate: 3.5 individuals = 1 FTE

Graduate: 3.0 individuals = 1 FTE

SOURCE: Council of Ontario Universities Committee on Enrolment Statistics and Projections, Estimate of the University Population in Ontario

Table 2.4 University Enrolment Trends (A)
Total University-Level Enrolments (FTE)

(Thousands)

		SCENARIO 1 CONSTANT PART. RATES	SCENARIO 2 CONTINUING TRENDS	SCENARIO 3 JUDGEMENTAL
ACTUAL	1977/78	481.6	431.6	481.6
ANNUAL DATA	1978/79	492.7	498.3	487.6
	1979/80	502.6	511.2	495.3
	1980/81	510.6	522.1	500.8
	1981/82	516.4	530.0	504.0
	1982/83	519.7	535.6	505.1
	1983/84	519.1	537.5	502.9
	1984/85	514.4	535.1	496.3
	1985/86	505.9	526.8	485.9
	1986/87	495.6	515.0	475.2
	1987/88	485.4	502.8	464.2
	1988/89	477.7	493.6	456.1
	1989/90	471.9	487.9	451.2
	1990/91	466.3	483.0	446.9
FIVE-YEAR AVERAGES	1991-1995	453.1	468.2	433.4
	1996-2000	456.1	470.9	436.1

(A) INCLUDES TRANSFER STUDENTS AND EXCLUDES FOREIGN STUDENTS

SOURCE: University Enrolment Projections to 2,000, a Working Paper, Ministry of State, Science and Technology

PARTICIPATION RATES

Factors Affecting University Enrolments

Two major factors affect the enrolment levels in universities:

1. The size of the client group (traditionally thought of as the 18-24 age group.)
2. The participation rate (traditionally expressed as the percentage of the 18-24 age group who are full-time students.)

1960's and Early 1970's

During the 1960's and early 1970's, both the size of the 18-24 age group and the participation rate were increasing. Demographic, as well as social, economic, and political factors, combined to produce unprecedented post-secondary growth. Participation rates grew from approximately 5% in 1960 to a high of over 15% in 1976-77 (universities only).

Tables 3.4 to 3.6 further illustrate the growth in participation rates, using Census data. In 1961, only 5% of the 20-24 population (20,051) had been exposed to post-secondary education. By 1971 this figure had risen to 37% (249,980), and by 1976 to 46% (343,485), (Tables 3.5 and 3.6).

The corresponding figures for university enrolments only are as follows:

	20 - 24 Population with some University Education	% of Population 20-24 with some University Education
1961	20,051	5%
1971	141,660	21%
1976	211,630	28%

Table 3.7 indicates the participation rates in 1976 of persons aged 40, 30 and 24. 33% of those aged 40 had been exposed to post-secondary education, 46% of those aged 30, and 49% of those aged 24, further illustrating the rapid increase in the participation rate over the last 20 years.

Mid 1970's to Present

1976-77 marked the peak in both university enrolments and participation rates. Although the 18-24 population will continue to increase to 1982-83, enrolments in the universities declined in both 1977-78 and 1978-79 (see Table 3.2)

Participation Rates by Sex

Table 3.8 illustrates the participation rates by sex from 1974-75 to 1979-80.

The full-time participation rate of males has slowly decreased over the period; that of females increased to 1976-77, and then slowly decreased, parallelling the overall decline in participation rates.

There has been a steady increase in the participation rate of females enrolled on a part-time basis.

Comparison with Other Jurisdictions

Comparison of participation rates with other jurisdictions, both within Canada and in other countries, are difficult due to the differences in the educational systems. However, if these differences are ignored, Canada would appear to enjoy a participation rate second only to the United States (see Table 3.1).

Comparisons with other provinces are even more difficult, due to the fact that, in some provinces, students enter post-secondary institutions after Grade 11, in others after Grade 12, and in Ontario after either Grade 12 or Grade 13.

Table 3.1 Gross Post-Secondary Participation Rates: Post-Secondary Enrolment as a % of 20-24 Year Olds

	1960	1965	1970	1973	1974	1975	1976	1977
Australia	13.11	16.02	16.62	20.13	22.16	23.40	24.25	-
Canada	16.03	26.33	34.59	35.07	34.68	38.99	38.07	37.07
France	9.83	18.20	19.50	21.81	23.11	24.29	24.42	-
Germany	6.11	8.83	13.41	18.05	19.28	25.10	25.02	25.14
Italy	6.61	10.70	16.69	21.40	23.98	25.48	26.78	27.58
Japan	9.45	12.90	17.01	20.03	22.14	24.69	26.22	27.85
Sweden	9.04	13.09	21.34	21.70	21.80	27.98	29.64	-
U. K.	8.50	11.75	14.07	16.18	16.66	18.95	-	-
U. S. A.	32.07	40.18	49.43	51.53	53.60	57.64	55.50	-

SOURCE: UNESCO Statistical Yearbook, 1978-79

Table 3.2 Post-secondary Enrolment Related to Relevant Age Group Population, Canada and Provinces, 1974-75 to 1978-79

No.	Characteristics	Canada	NFLD.	Prince Edward Island	Nova Scotia	N.B.	Quebec	Ont.	Manitoba	Sask.	Alberta	B.C.
				per cent					per cent			
	Full time: Non-university:											
	Related to 18-21 age group population:											
1	1974-75	12.3	4.2	9.8	4.3	2.2	22.8	9.5	3.6	3.4	10.1	9.5
2	1975-76	12.5	4.4	7.9	4.5	2.4	23.4	9.8	4.1	3.4	10.3	9.3
3	1976-77	12.6	4.5	8.2	4.5	2.6	24.0	9.5	4.4	3.3	10.7	9.2
4	1977-78	13.1	4.4	7.9	4.3	2.7	25.8	9.6	4.0	3.2	10.0	9.3
5	1978-79P......	13.2	4.2	7.9	4.1	2.9	26.0	10.0	3.8	3.2	10.4	8.8
	University:											
	Undergraduate related to 18-21 age group population											
6	1974-75	18.0	12.3	15.6	24.9	18.9	12.2	22.5	21.1	18.8	19.3	15.7
7	1975-76	18.7	12.8	16.3	25.6	19.6	13.0	23.3	22.1	19.3	19.5	16.2
8	1976-77	18.6	13.7	16.1	25.2	18.8	13.0	23.4	21.3	19.6	19.0	15.6
9	1977-78	18.2	13.5	16.1	24.7	18.6	13.5	22.3	20.6	18.6	18.5	15.0
10	1978-79P......	17.5	12.3	14.2	24.0	18.1	13.7	21.1	19.4	18.2	17.1	14.3
	Graduate related to 22-24 age group population:											
11	1974-75	3.2	1.8	-	3.3	1.5	3.1	4.0	2.8	1.5	3.4	2.7
12	1975-76	3.3	1.5	-	3.5	1.4	3.2	4.2	2.8	1.6	3.3	2.5
13	1976-77	3.3	1.4	-	3.7	1.4	3.2	4.2	2.9	1.7	3.0	2.6
14	1977-78	3.1	1.5	-	3.6	1.3	3.2	3.9	2.8	1.6	2.8	2.4
15	1978-79P......	3.1	1.4	-	3.5	1.1	3.3	3.8	2.8	1.5	2.6	2.4
	Total university related to 18-24 age group population:											
16	1974-75	12.0	8.2	9.5	16.2	12.0	8.5	14.9	13.7	12.3	13.0	10.3
17	1975-76	12.4	8.3	10.1	16.8	12.4	9.0	15.4	14.3	12.6	13.0	10.5
18	1976-77	12.4	8.8	10.0	16.7	11.9	9.0	15.5	13.7	12.6	12.4	10.1
19	1977-78	12.0	8.7	9.8	16.3	11.6	9.3	14.6	13.1	11.8	11.8	9.8
20	1978-79P......	11.5	7.9	8.6	15.6	11.2	9.4	13.9	12.4	11.4	10.8	9.3

NOTES: 1. Interprovincial comparisons are not valid because of differences in education systems
2. P = Preliminary figures

SOURCE: Education in Canada, 1979
Statistics Canada

Table 3.2 Post-secondary Enrolment Related to Relevant Age Group Population, Canada and Provinces, 1974-75 to 1978-79-Concluded

No.	Characteristics	Canada	NFLD.	Prince Edward Island	Nova Scotia	N.B.	Quebec	Ont.	Manitoba	Sask.	Alberta	B.C.
				per cent					per cent			
	Total full-time post-secondary enrolment to 18-24 age group population:											
1	1974-75	19.3	10.7	15.4	18.8	13.4	22.0	20.5	15.9	14.5	19.1	15.8
2	1975-76	19.9	10.9	15.0	19.6	13.9	23.0	21.2	16.7	14.7	19.2	15.9
3	1976-77	19.8	11.5	15.1	19.4	13.5	23.3	21.1	16.3	14.7	18.7	15.5
4	1977-78	19.6	11.3	14.7	18.8	13.3	24.5	20.2	15.5	13.7	17.5	15.2
5	1978-79P......	19.2	10.4	13.4	18.0	12.9	24.8	19.7	14.6	13.3	16.8	14.4
	Part-time: University: Undergraduate related to 18-21 age group population:											
6	1974-75	8.5	7.2	9.4	7.6	9.3	9.5	9.8	11.3	8.5	4.6	3.7
7	1975-76	9.0	6.7	9.9	7.9	9.2	10.3	10.2	12.0	8.8	4.7	4.3
8	1976-77	9.0	6.4	9.3	7.9	7.2	11.0	9.8	13.4	9.4	4.5	4.8
9	1977-78	10.0	6.5	8.4	8.0	7.1	13.3	10.5	13.4	9.3	4.7	5.0
10	1978-79P......	10.0	6.2	8.3	8.1	6.4	13.6	10.5	12.1	9.5	4.7	5.4
	Graduate related to 22-24 age group population:											
11	1974-75	2.1	1.2	-	1.6	0.7	2.3	2.6	2.3	1.6	1.9	1.0
12	1975-76	2.2	0.9	-	1.6	1.2	2.5	2.8	2.3	1.6	1.8	1.1
13	1976-77	2.2	1.0	-	2.0	1.1	2.4	2.9	2.5	1.4	1.7	1.1
14	1977-78	2.2	0.9	-	2.2	1.2	2.5	2.7	2.5	1.5	1.5	1.2
15	1978-79P......	2.2	1.1	-	2.4	1.2	2.7	2.6	2.6	1.3	1.4	1.2
	Total part-time related to 18-24 age group population:											
16	1974-75	5.9	4.8	5.7	5.2	5.9	6.6	6.8	7.7	5.9	3.5	2.6
17	1975-76	6.2	4.4	6.1	5.4	6.1	7.1	1.2	8.1	6.1	3.6	3.0
18	1976-77	6.3	4.3	5.8	5.6	4.8	7.6	6.9	8.9	6.3	3.3	3.2
19	1977-78	6.8	4.3	5.1	5.7	4.7	8.9	7.3	8.9	6.1	3.3	3.4
20	1978-79P......	6.8	4.1	5.1	5.8	4.3	9.1	7.2	8.1	6.2	3.3	3.7

NOTES: 1. Interprovincial comparisons are not valid because of differences in education systems.
2. P = Preliminary figures

SOURCE: Education in Canada, 1979

Table 3.3 Degree-credit Enrollment in Institutions of Higher Education Compared with Population Aged 18-24: United States, Fall 1950 to Fall 1977

Year	Population 18-24 years of age[1]	Enrollment	Number enrolled per 100 persons 18-24 years of age
1	2	3	4
1950	16,076,000	2,286,500	14.2
1951	15,781,000	2,107,109	13.4
1952	15,473,000	2,139,156	13.8
1953	15,356,000	2,235,977	14.6
1954	15,103,000	2,452,466	16.2
1955	14,968,000	2,660,429	17.8
1956	14,980,000	2,927,367	19.5
1957	15,095,000	3,047,373	20.2
1958	15,307,000	3,236,414	21.2
1959	15,677,000	3,377,273	21.5
1960	16,128,000	3,582,726	22.2
1961	17,004,000	3,860,643	22.7
1962	17,688,000	4,174,936	23.6
1963	18,268,000	4,494,626	24.6
1964	18,783,000	4,950,173	26.4
1965	20,293,000	5,526,325	27.2
1966	21,376,000	[2]5,928,000	27.7
1967	22,327,000	[2]6,406,000	28.7
1968	22,883,000	6,928,115	30.3
1969	23,723,000	7,484,073	31.5
1970	24,687,000	7,920,149	32.1
1971	25,779,000	8,116,103	31.5
1972	25,913,000	8,265,057	31.9
1973	26,397,000	8,518,150	32.3
1974	26,916,000	9,023,446	33.5
1975	27,605,000	9,731,431	35.3
1976	28,163,000	[2]9,589,000	34.0
1977	28,602,000	[2]9,807,000	34.3

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[1] These Bureau of the Census estimates are as of July 1 preceding the opening of the academic year. They include Armed Forces overseas.

[2] Estimated.

NOTE: Data are for 50 States and the District of Columbia. Beginning in 1953, enrollment figures include extension students.

SOURCES: (1) U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, Fall Enrollment in Higher Education. (2) U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-25, Nos. 311, 518, and 721 Digest of Education Statistics, 1979 National Center for Education Statistics Washington, D.C.

Table 3.4 1961 Ontario Population with Post-Secondary Education 15 - 24 Years

TOTAL POPULATION 15 YEARS - 24 YEARS: 823,849

TOTAL POPULATION 20 YEARS - 24 YEARS: 386,966

Post-Secondary Categories	# 15-24 Years	% of Population 15-24 Years	# 20-24 Years	% of Population 20-24 Years
Some university	22,192	2.7	15,286	4.0
University Degree	4,823	0.6	4,765	1.0
TOTAL	**27,015**	**3.3**	**20,051**	**5.0**

SOURCE: Statistics Canada Catalogue 92-557 1961 Census

Table 3.5 1971 Ontario Population with Post-Secondary Education 15 - 24 Years

TOTAL POPULATION 15 YEARS & OVER: 5,495,915
TOTAL POPULATION 15 YEARS - 24 YEARS: 1,384,925
TOTAL POPULATION 20 YEARS - 24 YEARS: 386,966

Post-Secondary Categories	# 15-24 Years	% of Population 15-24 Years	# 20-24 Years	% of Population 20-24 Years
Post-secondary non-university	84,145	6.1	63,350	9.4
Post-secondary non-university & vocational	51,090	3.7	44,970	6.7
SUB-TOTAL	135,235	9.8	108,320	16.1
University without degree	103,650	7.5	76,830	11.4
University with degree	42,010	3.0	42,015	6.2
University & other training without degree	18,830	1.4	17,280	2.6
University & other training with degree	5,565	0.4	5,535	0.8
SUB-TOTAL	170,055	12.3	141,660	21.0
TOTAL	**305,290**	**22.1**	**249,980**	**37.1**

NOTES: 1. Post-secondary non-university refers to trade or business school, technical institutes.
2. Vocational refers to apprenticeship training.
3. Other training, refer to notes 1 and 2.

SOURCE: 1971 Census, Statistics Canada Catalogues 92-742 and 92-743.

Table 3.6 1976 Ontario Population with Post-Secondary Education 15 - 24 Years

TOTAL POPULATION 15 YEARS & OVER: 6,190,680
TOTAL POPULATION 15 YEARS - 24 YEARS: 1,552,190
TOTAL POPULATION 20 YEARS - 24 YEARS: 744,275

Post-Secondary Categories	# 15-24 Years	% of Population 15-24 Years	# 20-24 Years	% of Population 20-24 Years
Post-secondary non-university without certificate or diploma	92,200	5.9	64,650	8.7
Post-secondary non-university with certificate or diploma	74,635	4.8	67,205	9.8
SUB-TOTAL	166,835	10.7	131,855	17.7
University without degree	177,875	11.5	140,570	18.9
University with certificate or diploma	10,375	0.7	9,460	1.3
University with degree	62,245	4.0	61,600	8.3
SUB-TOTAL	250,495	16.2	211,630	28.5
TOTAL	**417,330**	**26.9**	**343,485**	**46.2**

NOTES: 1. Post-secondary non-university refers to teacher's college, nursing school, community college.

SOURCE: Statistics Canada SDDEMB12 - Population 15 years and over - 1976 Census of Canada.

Table 3.7 1976 Ontario Population with Post-Secondary Education 24, 30 and 40 Years

TOTAL POPULATION AGE 24: 142,115
TOTAL POPULATION AGE 30: 122,440
TOTAL POPULATION AGE 40: 94,660

Post-Secondary Categories	# 24 Years	% of 24 yrs. Population	# 30 Years	% of 30 yrs. Population	# 40 Years	% of 40 yrs. Population
Post-secondary non-university without certificate or diploma	11,390	8.0	9,065	7.4	6,640	7.0
Post-secondary non-university with certificate or diploma	16,060	11.3	14,970	12.2	9,125	9.6
SUB-TOTAL	**27,450**	**19.3**	**24,035**	**19.6**	**15,765**	**16.6**
University without degree	19,960	14.0	11,840	9.7	6,125	6.5
University with certificate or diploma	2,210	1.6	2,385	2.0	1,650	1.7
University with degree	20,545	14.5	17,720	14.5	7,955	8.4
SUB-TOTAL	**42,715**	**30.1**	**31,945**	**26.2**	**15,730**	**16.6**
TOTAL	**70,165**	**49.4**	**55,980**	**45.8**	**31,495**	**33.2**

NOTES: 1. Post-secondary non-university refers to teacher's college, nursing school, community college.

SOURCE: Statistics Canada Package, 1976 Census.

Table 3.8 Post-secondary Enrolment, by Sex, Related to Relevant Age Group Population, Ontario - 1974 - 75 to 1979 - 80

Characteristics		1974-75	1975-76	1976-77	1977-78	1978-79	1979-80P
		per cent					
FULL-TIME							
College							
Related to 18-21 age group population	M.	9.5	9.7	9.3	9.5	9.5	10.1
	F.	9.6	9.9	9.6	9.8	10.4	11.1
	T.	9.5	9.8	9.5	9.6	10.0	10.6
University							
Undergraduate related to 18-21 group population	M.	26.5	26.7	26.0	24.4	22.9	22.4
	F.	18.5	19.8	20.7	20.1	19.3	19.0
	T.	22.5	23.3	23.4	22.3	21.1	20.7
Graduate related to 22-24 age group population	M.	5.9	6.0	5.9	5.5	5.2	4.7
	F.	2.2	2.4	2.5	2.4	2.5	2.5
	T.	4.0	4.2	4.2	3.9	3.8	3.6
Total university related to 18-24 age group population	M.	18.0	18.2	17.9	16.6	15.6	15.1
	F.	11.7	12.6	13.1	12.7	12.1	12.0
	T.	14.9	15.4	15.5	14.6	13.9	13.6
Total full-time post-secondary enrolment related to 18-24 age group population	M.	23.6	24.0	23.4	22.2	21.2	21.1
	F.	17.4	18.4	18.8	18.3	18.1	18.4
	T.	20.5	21.2	21.1	20.2	19.7	19.8
PART-TIME							
University							
Undergraduate related to 18-21 age group population	M.	8.5	8.8	7.9	8.7	8.5	8.6
	F.	11.0	11.6	11.6	12.4	12.6	13.3
	T.	9.8	10.2	9.8	10.5	10.5	10.9
Graduate related to 22-24 age group population	M.	4.0	4.2	4.1	3.7	3.4	3.3
	F.	1.3	1.5	1.7	1.8	1.8	1.8
	T.	2.6	2.8	2.9	2.7	2.6	2.6
Total part-time related to 18-24 age group population	M.	6.7	6.9	6.4	6.6	6.4	6.4
	F.	7.0	7.4	7.5	7.9	8.0	8.4
	T.	6.8	7.2	6.9	7.3	7.2	7.4

P denotes preliminary figures

SOURCE: Statistics Canada

STAFF

From 1971/72 to 1978/79 the number of full-time faculty at Ontario universities, Ryerson and Dominicain increased by 1,714 or 15.7%. During the 1979/80 academic year, there was a slight decrease in the total number of full-time faculty (see Table 4.1). Table 4.2 shows that since 1977/78 approximately 80% of the full-time faculty is tenured or is leading to tenure.

The number of new faculty appointments at Ontario universities and Ryerson fluctuated during most of the decade; but decreased noticeably from 957 in 1977/78 to 678 in 1979/80 (see Table 4.3).

As shown in Table 4.5 the mean salary for full-time faculty at Ontario universities increased from $17,336 in 1971/72 to $32,400 in 1979/80, an increase of 86.9%. In 1971/72 mean salaries ranged from $11,475 for lecturers to $24,591 for full professors compared with $21,211 and $41,663 for the same ranks in 1979/80, an increase of 84.8% and 69.4% respectively (see Table 4.5.1 - 4.5.4). During the 1971/72 academic year the minimum salary scales ranged from $9,218 for the rank below assistant professor to $18,761 for full professors. In 1979/80 the minimum salary scales ranged from $15,817 to $31,956 for the same ranks, an increase of 71.6% and 70.3% respectively (see Table 4.6.1 - 4.6.4).

As shown in Table 4.4 the ratio of full-time equivalent faculty to full-time equivalent students has not altered dramatically during the decade. The ratio ranged from a low of 1:13.4 in 1972/73 to a high of 1:14.8 in 1975/76. In 1979/80 the ratio was 1:14.2.

Table 4.1 Full-time Academic Staff at Ontario Universities and Ryerson, 1971-72 to 1979-80

	71-72	72-73	73-74	74-75	75-76	76-77	77-78	78-79	79-80
BROCK	186	198	203	219	219	219	220	216	220
CARLETON	578	583	589	604	607	633	632	628	625
GUELPH	704	731	738	709	720	782	774	786	768
LAKEHEAD	240	233	225	232	246	240	242	252	251
LAURENTIAN	218	233	241	263	276	274	283	268	263
ALGOMA	31	36	32	28	30	30	34	31	31
NIPISSING	16	18	36	36	38	36	37	37	34
HEARST	9	11	12	13	10	13	14	11	11
McMASTER	683	719	754	777	806	831	877	900	913
OTTAWA	843[1]	910	924	948	992	990	1,000	1,013	1,002
QUEEN'S	773	818	839	877	875	899	886	892	894
TORONTO	2,378	2,423	2,420	2,471	2,409	2,559	2,453	2,545	2,639
TRENT	157	160	172	175	177	186	182	176	179
WATERLOO	770	757	778	794	802	800	805	815[2]	800
WESTERN	1,167	1,257	1,309	1,341	1,353	1,368	1,423	1,420	1,391
WILFRID LAURIER	136	142	144	178	194	206	219	216	213
WINDSOR	477	468	495	498	491	503	526	530	496
YORK	867	1,008	1,007	1,056	1,039	1,037	1,050	1,030	1,014
OISE	133	134	136	139	151	153	159	155	153
DOMINICAIN	32	29	29	29	35	35	35	35	35
REGIS	16	18	19	15	18	18	15	14	14
TOTAL	10,414	10,886	11,102	11,402	11,488	11,812	11,866	11,970	11,946
RYERSON	491	532	518	623	620	640	657	649	650

Footnotes: 1. Excluding Saint Paul
2. Excluding St. Paul's College

SOURCE: Statistics Canada Full-time Teaching Staff System

Table 4.2 Percentage of Full-Time Faculty Which is Tenured & Leading to Tenure

INSTITUTION	1977-78			1978-79			1979-80		
	TOTAL FACULTY	NO. TENURED AND LEADING TO TENURE	% OF TOTAL FACULTY	TOTAL FACULTY	NO. TENURED AND LEADING TO TENURE	% OF TOTAL FACULTY	TOTAL FACULTY	NO. TENURED AND LEADING TO TENURE	% OF TOTAL FACULTY
BROCK	220	201	91.3	216	198	91.7	220	194	88.2
CARLETON	632	558	88.3	628	583	92.8	625	597	95.5
GUELPH	774	701	90.6	786	701	89.2	768	697	90.8
LAKEHEAD	242	205	84.7	252	199	79.0	251	195	77.7
LAURENTIAN	283	226	79.9	268	217	81.0	263	224	85.2
ALGOMA	34	29	85.3	31	28	90.3	31	28	90.3
NIPISSING	37	34	91.9	37	33	89.2	34	30	88.2
HEARST	14	14	100.0	11	na	na	11	11	100.0
McMASTER	877	734	83.7	900	759	84.3	913	799	87.5
OTTAWA	986[1]	926	93.9	1,013	950	93.8	1,002	944	94.2
QUEEN'S	886	697	78.7	892	630	70.6	894	624	69.8
TORONTO	2,453	1,803	73.5	2,545	1,861	73.1	2,653	1,879	70.8
TRENT	182	167	91.8	176	165	93.8	179	163	91.1
WATERLOO	805	689	85.6	815	703	86.3	800	698	87.3
WESTERN	1,423	914	64.2	1,420	1,029	72.5	1,391	1,029	74.0
WILFRID LAURIER	219	162	73.9	216	175	81.0	213	165	77.5
WINDSOR	526	507	96.4	530	472	89.1	496	483	97.4
YORK	1,050	898	85.5	1,030	936	90.9	1,014	919	90.6
OISE	159	151	95.0	155	153	98.7	153	147	96.1
TOTAL	**11,802**	**9,616**	**81.5**	**11,921**	**9,792**	**82.1**	**11,911**	**9,773**	**82.1**
RYERSON	na	na	na	649	563	86.8	650	562	86.5

NOTE: na = not available

FOOTNOTE: 1. St. Augustine was not reported.
2. Includes Regis College

SOURCE: Statistics Canada Full-Time Teaching Staff System

Table 4.3 New Faculty Appointments by Institution

INSTITUTION	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	35	14	17	35	21	15	15	14	12
CARLETON	80	32	33	38	35	37	34	27	25
GUELPH	37	75	55	44	37	63	54	73	50
LAKEHEAD	37	23	26	31	41	18	17	25	19
LAURENTIAN	35	17	22	43	36	31	28	20	22
ALGOMA	14	5	1	-	-	-	2	-	1
NIPISSING	5	3	19	2	4	-	2	1	-
HEARST	2	3	1	-	1	3	3	-	-
McMASTER	107	85	79	74	74	73	86	87	62
OTTAWA	123	85	84	71	110	109	105	101	87
QUEEN'S	76	83	80	80	41	41	36	45	43
TORONTO	262	243	112	205	125	157	152	132	111
TRENT	28	20	19	13	14	17	10	7	10
WATERLOO	124	66	68	79	67	58	56	38	32
WESTERN	171	169	134	129	125	112	149	118	87
WILFRID LAURIER	20	15	11	46	23	24	27	20	16
WINDSOR	43	30	42	33	28	39	38	26	23
YORK	206	142	52	67	72	67	73	43	40
TOTAL	**1,405**	**1,110**	**855**	**990**	**854**	**864**	**900**	**777**	**640**
RYERSON	na	na	na	72	53	47	57	35	38
GRAND TOTAL	**1,405**	**1,110**	**855**	**1,062**	**907**	**911**	**957**	**812**	**678**

NOTE: na = not available

SOURCE: Statistics Canada Full-time Teaching Staff System

Table 4.4 Ontario Universities' FTE Student/FTE Faculty Ratios

	72-73			73-74			74-75			75-76			76-77			77-78			78-79			79-80		
	Students	Faculty	Ratio	Students	Faculty	Ratio	Students	Faculty	Ratio	Students	Faculty	Ratio	Students	Faculty	Ratio	Students	Faculty	Ratio	Students	Faculty	Ratio	Students	Faculty	Ratio
BROCK	3,127	220	14.2	3,283	219	15.0	3,486	243	14.3	3,816	250	15.3	3,710	246	15.1	3,500	251	13.9	3,375	247	13.7	3,427	252	13.6
CARLETON	10,713	713	15.0	10,793	677	15.9	11,121	696	16.0	12,049	798	15.1	11,862	713	16.6	11,047	708	15.6	10,414	722	14.4	10,385	711	14.6
GUELPH	8,540	803	10.6	9,369	805	11.6	10,219	792	12.9	10,552	817	12.9	10,797	826	13.1	10,655	840	12.7	9,811	865	11.3	9,713	832	11.7
LAKEHEAD	3,398	271	12.5	3,227	255	12.7	3,217	266	12.1	3,525	276	12.8	3,628	274	13.2	3,729	278	13.4	3,545	283	12.5	3,302	287*	11.5
LAURENTIAN	3,050	244	12.5	3,249	263	12.4	3,635	266	13.7	3,735	267	14.0	3,827	271	14.1	3,555	281	12.7	3,449	275	12.5	3,432	273	12.6
ALGOMA	624	41*	15.2	607	38*	16.0	594	35*	17.0	557	38*	14.7	489	36*	13.6	464	37*	12.5	429	34*	12.6	329	34*	9.7
NIPISSING	296	22*	13.5	400	40*	10.0	498	38*	13.1	621	43*	14.4	642	41*	15.7	571	42*	13.6	458	41*	11.2	439	39*	11.3
HEARST	147	12*	12.2	151	15*	10.1	167	17*	9.8	150	14*	10.7	133	17*	7.8	96	17*	5.6	128	13*	9.8	86	13*	6.6
McMASTER	10,089	761	13.3	10,275	784	13.1	11,114	824	13.5	11,927	817	14.6	12,107	855	14.2	11,704	838	14.0	11,362	858	13.2	11,139	840	13.3
OTTAWA	12,244	1,016	12.1	13,084	1,025	12.8	14,020	1,077	13.0	14,711	1,040	14.1	15,046	1,045	14.4	14,470	1,054	13.7	14,778	1,068	13.8	15,157	1,059	14.3
QUEEN'S	10,410	871	12.0	10,805	896	12.1	11,257	896	12.6	11,842	892	13.3	11,995	909	13.2	11,868	910	13.0	11,814	914	12.9	12,108	904	13.4
TORONTO	33,066	2,517	13.1	34,880	2,519	13.8	37,003	2,522	14.7	38,327	2,616	14.7	37,507	2,692	13.9	35,735	2,703	13.2	36,450	2,640	13.8	37,338	2,616	14.3
TRENT	2,305	168	13.7	2,224	176	12.6	2,491	185	13.5	2,717	185	14.7	2,848	192	14.8	2,840	190	14.9	2,582	188	13.7	2,563	185	13.9
WATERLOO	12,645	883	14.3	13,025	884	14.7	13,429	904	14.9	14,210	888	16.0	15,120	898	16.8	14,966	906	16.5	14,825	898	16.5	15,077	892	16.9
WESTERN	17,209	1,161	14.8	18,418	1,285	14.3	19,478	1,335	14.6	20,395	1,311	15.6	20,000	1,329	15.0	19,462	1,343	14.5	18,412	1,307	14.1	18,492	1,270	14.6
WILFRID LAURIER	4,448	202*	22.0	4,438	202	22.0	4,389	237	18.5	4,743	242	19.6	4,850	260	18.7	4,766	271	17.6	4,627	257	18.C	4,792	258	18.6
WINDSOR	7,581	563	13.5	7,951	578	13.8	8,401	594	14.1	9,657	588	16.4	10,360	618	16.8	9,732	631	15.4	8,482	607	14.0	8,373	576	14.5
YORK	14,983	1,135	13.2	15,737	1,121	14.0	16,517	1,156	14.3	17,589	1,150	15.3	17,970	1,142	15.7	16,902	1,162	14.5	16,518	1,182	14.0	16,148	1,170	13.8
OCA	935	72*	13.0	877	72*	12.2	1,193	77*	15.5	1,408	76*	18.5	1,603	89*	18.0	1,651	92*	17.9	1,662	88*	18.9	1,759	84*	20.9
OISE	1,436	139*	10.3	1,604	133*	12.1	1,615	140*	11.5	1,621	221	7.3	1,727	208	8.3	1,756	213	8.2	1,712	200	8.6	1,692	195	8.7
RYERSON	8,342	577*	14.5	8,985	626*	14.4	9,412	686*	13.7	9,882	607	16.3	9,585	683	14.0	10,389	707	14.7	10,618	694	15.3	10,893	678	16.1
TOTAL	**165,988**	**12,391**	**13.4**	**173,382**	**12,613**	**13.7**	**183,256**	**12,986**	**14.1**	**194,034**	**13,136**	**14.8**	**195,806**	**13,344**	**14.7**	**189,858**	**13,474**	**14.1**	**185,451**	**13,381**	**13.9**	**186,644**	**13,168**	**14.2**

NOTES: 1. FTE faculty figures calculated by dividing each institution's average full-time faculty salary into its total instructional salaries per C.O.F.O. Reports.
2. Source of FTE students was "Eligible Enrolment at Ontario Universities; Total FTE" dated December 5, 1980.
3. Guelph FTE faculty figures based on salary expenditure including OMAE instructional component.
4. *These figures were derived otherwise than indicated in Note 1.

Table 4.5 Mean Salaries for Full-Time Faculty at Ontario Universities[1]

INSTITUTION	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	15,509	16,525	17,598	18,880	21,772	24,291	26,294	27,478	29,085
CARLETON	16,627	17,576	18,978	20,771	20,898[2]	26,112	28,183	29,811	32,309
GUELPH	17,051	17,725	19,031	21,493	24,445	26,736	29,084	30,308	32,575
LAKEHEAD	15,116	15,702	16,865	18,196	20,330	22,364	24,248	25,165	na
LAURENTIAN	14,987	15,309	16,292	18,323[3]	21,107[4]	23,113[4]	24,771	26,588	28,126
McMASTER	18,340	19,323	20,359	22,242	25,376	27,895	29,615	30,868	33,057
OTTAWA	16,230	17,572	18,832	20,645	23,505	26,161	28,281	30,245	32,362
QUEEN'S	18,111	18,875	20,010	21,897	25,131	27,500	29,775	30,878	33,183
TORONTO	18,615	19,308	20,345	22,224	25,459	27,406	29,668	31,652	33,736
TRENT	15,677	16,733	17,028	18,383	20,924	21,996	24,897	26,081	28,088
WATERLOO	17,653	18,785	20,115	21,746	24,835	27,360	30,201	31,471[5]	33,819
WESTERN	17,453	18,220	19,412	20,995	23,944	25,931	27,485	28,909	31,115
WILFRID LAURIER	15,494	16,369	17,839	19,068	21,712	23,883	26,161	28,598	29,775
WINDSOR	16,823	17,842	18,719	20,411	23,107	24,985	27,250	29,810	32,563
YORK	15,867	16,821	17,674	19,872	22,309	25,265	27,313	28,227	30,547
OISE	20,847	21,645	22,522	24,726	27,055	30,351	32,801	35,540	38,719
TOTAL	**17,336**	**18,213**	**19,295**	**21,154**	**23,918**	**26,350**	**28,451**	**30,067**	**32,400**

NOTE: na = not available

FOOTNOTES:
1. Includes medical/dental
2. This figure does not reflect an increase given on or after January 1, 1976
3. Algoma and Hearst are not included
4. Algoma is not included
5. St. Paul's College is not included

SOURCE: Statistics Canada, Salary Analysis of Full-Time Teachers

Table 4.5.1 Mean Salaries for Full Professors at Ontario Universities[1]

INSTITUTION	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	22,775	23,484	24,502	26,481	29,436	32,083	34,707	36,329	38,913
CARLETON	22,640	23,744	25,390	27,214	27,036[2]	33,291	35,546	36,735	39,135
GUELPH	24,071	25,016	26,373	29,146	32,488	35,846	38,894	40,639	42,974
LAKEHEAD	22,264	23,389	24,830	26,105	28,319	29,453	31,249	31,806	na
LAURENTIAN	23,207	23,889	24,565	27,646[3]	30,793[4]	33,640[4]	36,336	37,607	39,325
McMASTER	25,366	26,702	27,512	29,273	33,349	36,112	38,154	39,486	41,794
OTTAWA	23,998	25,420	26,794	29,041	32,412	35,742	37,884	40,444	42,757
QUEEN'S	24,656	25,949	27,235	29,816	33,178	36,260	38,352	39,603	42,023
TORONTO	25,000	26,044	27,049	29,211	32,906	35,188	37,467	39,608	42,011
TRENT	22,113	23,171	23,882	25,980	28,606	29,594	32,847	33,610	35,543
WATERLOO	24,670	26,004	27,506	29,372	32,914	36,174	38,825	40,113[5]	42,331
WESTERN	26,125	27,163	28,091	29,969	33,971	35,153	38,092	39,082	41,215
WILFRID LAURIER	22,055	24,272	26,715	28,106	32,426	35,810	36,909	39,095	41,827
WINDSOR	22,491	23,406	23,918	25,425	28,436	31,163	34,413	38,048	40,248
YORK	24,637	25,564	26,265	28,698	31,979	35,177	37,543	38,939	41,336
OISE	27,107	28,921	30,166	32,273	35,126	38,374	41,309	43,862	47,105
TOTAL	**24,591**	**25,702**	**26,779**	**28,895**	**32,227**	**35,090**	**37,478**	**39,223**	**41,663**

NOTE: na = not available

FOOTNOTES:
1. Includes medical/dental
2. This figure does not reflect an increase given on or after January 1, 1976
3. Algoma and Hearst are not included
4. Algoma is not included
5. St. Paul's College is not included

SOURCE: Statistics Canada, Salary Analysis of Full-Time Teachers

Table 4.5.2 Mean Salaries for Associate Professors at Ontario Universities[1]

INSTITUTION	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	16,455	17,082	18,005	19,045	21,681	23,926	25,908	27,178	29,171
CARLETON	17,026	17,606	18,936	20,372	19,981[2]	24,965	26,930	28,277	30,641
GUELPH	17,998	18,320	19,103	20,853	23,444	26,139	28,093	29,359	31,062
LAKEHEAD	17,022	17,947	18,951	20,215	22,488	24,130	25,304	25,837	na
LAURENTIAN	17,539	17,830	18,474	20,946[3]	23,948[4]	26,208[4]	28,101	29,384	30,720
McMASTER	18,505	19,203	20,003	21,665	24,400	26,585	28,722	29,649	31,345
OTTAWA	17,306	18,621	19,408	20,958	23,388	25,970	28,169	30,214	32,683
QUEEN'S	17,969	18,821	19,332	21,121	23,703	25,890	27,750	28,675	30,511
TORONTO	17,964	18,720	19,528	21,078	23,608	25,827	27,996	30,036	31,764
TRENT	16,383	16,915	17,571	18,895	21,184	22,697	25,001	25,797	27,153
WATERLOO	18,092	18,597	19,568	21,401	24,131	26,668	29,226	30,620[5]	32,507
WESTERN	18,121	18,862	19,748	21,183	24,166	24,963	27,696	28,852	30,681
WILFRID LAURIER	17,432	17,903	18,756	20,557	22,891	25,842	27,330	30,145	32,168
WINDSOR	17,437	18,009	18,215	19,700	21,970	23,951	25,935	28,118	30,130
YORK	17,391	17,927	18,106	19,322	21,396	23,791	25,610	26,374	28,715
OISE	21,450	21,911	22,923	24,423	26,637	29,764	32,231	34,508	37,058
TOTAL	**17,848**	**18,551**	**19,275**	**20,821**	**23,135**	**25,537**	**27,563**	**28,998**	**31,044**

NOTE: na = not available

FOOTNOTES:
1. Includes medical/dental
2. This figure does not reflect an increase given on or after January 1, 1976
3. Algoma and Hearst are not included
4. Algoma is not included
5. St. Paul's College is not included

SOURCE: Statistics Canada, Salary Analysis of Full-Time Teachers

Table 4.5.3 Mean Salaries for Assistant Professors at Ontario Universities[1]

INSTITUTION	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	13,543	14,332	14,776	15,866	17,850	19,536	21,339	22,406	23,748
CARLETON	13,643	14,093	15,259	16,401	16,446[2]	20,404	21,895	23,199	25,199
GUELPH	13,999	14,527	15,052	16,592	18,745	20,400	21,784	22,611	24,229
LAKEHEAD	13,973	14,419	15,131	16,088	17,893	19,439	20,613	21,165	na
LAURENTIAN	13,788	14,244	15,480	17,211[3]	19,951[4]	21,602[4]	23,280	24,600	25,613
McMASTER	14,797	15,086	15,752	16,994	19,182	21,093	22,214	23,303	24,503
OTTAWA	13,975	14,765	15,418	16,911	19,453	21,564	22,971	24,562	25,889
QUEEN'S	14,211	14,845	15,337	16,806	18,745	20,389	21,789	22,710	24,593
TORONTO	14,716	15,254	16,004	17,288	19,305	20,413	22,111	24,876	26,791
TRENT	12,937	13,424	13,893	14,842	16,587	17,532	19,701	20,201	21,045
WATERLOO	13,933	14,428	14,976	16,239	18,261	19,897	21,751	22,484[5]	24,297
WESTERN	14,347	15,045	15,752	17,281	19,756	19,927	21,719	22,715	24,105
WILFRID LAURIER	13,764	14,392	15,120	16,368	18,129	20,823	21,806	23,465	24,545
WINDSOR	14,241	14,712	15,141	16,410	18,218	18,687	19,903	21,392	23,521
YORK	13,702	14,290	14,660	15,767	17,604	19,625	21,075	21,968	23,654
OISE	17,249	17,692	17,777	19,183	21,284	23,458	25,358	27,036	28,287
TOTAL	**14,197**	**14,763**	**15,410**	**16,761**	**18,811**	**20,444**	**21,887**	**23,224**	**24,937**

NOTE: na = not available

FOOTNOTES:
1. Includes medical/dental
2. This figure does not reflect an increase given on or after January 1, 1976
3. Algoma and Hearst are not included
4. Algoma is not included
5. St. Paul's College is not included

SOURCE: Statistics Canada, Salary Analysis of Full-Time Teachers

Table 4.5.4 Mean Salaries for Lecturers at Ontario Universities[1]

INSTITUTION	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	11,253	11,474	12,388	11,801[2]	12,766	13,917	15,967	17,161	18,541
CARLETON	10,973	11,547	12,502	14,025	14,556[3]	17,510	18,390	19,438	21,749
GUELPH	11,262	11,685	12,053	14,069	15,296	16,764	17,691	18,557	19,996
LAKEHEAD	11,547	11,944	12,513	13,335	15,132	16,517	17,793	18,319	na
LAURENTIAN	11,372	11,356	12,324	13,288[4]	15,458[5]	17,308[5]	18,234	20,462	21,733
McMASTER	12,492	12,904	13,665	14,102	15,940	17,279	17,330	18,289	19,500
OTTAWA	11,426	11,953	12,955	13,960	16,915	16,784[6]	18,576	18,378	20,132
QUEEN'S	12,121	12,458	12,234[2]	15,034	18,212	19,180	21,102	18,432	20,202
TORONTO	11,310	12,668	12,849	14,149	16,636	16,884	18,652	22,163	23,225
TRENT	9,200	na	11,978	12,675	14,000	14,233	16,870	na	17,852
WATERLOO	11,369	11,945	12,387	13,306	15,601	16,260	18,736	19,870[7]	21,258
WESTERN	11,260	11,811	12,072	13,076	14,749	16,459	17,021	17,596	18,680
WILFRID LAURIER	11,043	11,554	11,823	12,998	14,658	15,714	17,589	19,499	20,596
WINDSOR	11,218	11,512	11,919	12,616	13,781	14,924	16,027	16,477	17,728
YORK	11,531	11,753	12,012	13,143	13,860	15,241	16,891	19,023	20,674
OISE	15,646	15,875	16,431	17,979	18,625	20,312	23,279	na	na
TOTAL	**11,475**	**12,075**	**12,501**	**13,720**	**15,716**	**16,688**	**18,106**	**19,703**	**21,211**

NOTE: na = not available

FOOTNOTES:
1. Includes medical/dental
2. The mean salary at both Brock and Queen's was affected by an increase of new staff with lower salary levels
3. This figure does not reflect an increase given on or after January 1, 1976
4. Algoma and Hearst are not included
5. Algoma is not included
6. There were 36 fewer lecturers reporting salary in 1976-77 than in 1975-76
7. St. Paul's College is not included

SOURCE: Statistics Canada, Salary Analysis of Full-Time Teachers

Table 4.6.1 Minimum Salary Scale for Full Professors at Ontario Universities 1971/72 - 1980/81

INSTITUTION	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81
BROCK	19,000	19,500	20,000	21,160	23,550	25,460	27,190	28,000	29,400	31,460
CARLETON	18,500	19,000	20,225	20,225	20,225	24,930	26,370	27,100	28,590	31,420
GUELPH	18,700	19,400	20,100	21,900	24,500	26,500	28,171	29,298	31,114	32,670
LAKEHEAD	18,790	19,355	20,130	21,630	22,710	24,510	25,850	26,495	na	na
LAURENTIAN	20,000	20,000	21,000	22,785	25,520	27,441	29,329	30,209	31,710	33,778
McMASTER	18,400	19,000	19,750	21,100	23,500	25,400	27,000	27,800	29,200	31,375
OTTAWA	18,640	19,250	20,020	21,540	23,480	25,562	27,351	28,992	30,692	33,147
SAINT-PAUL	na	15,000	na	na	na	20,872	24,000	26,000	na	na
QUEEN'S	18,800	na	20,100	21,600	24,000	26,000	27,450	28,000	29,300	31,550
TORONTO	17,800	18,300	19,000	20,300	22,700	24,600	26,100	27,100	28,600	30,900
TRENT	19,100	19,780	20,470	21,800	24,000	25,200	27,600	28,248	29,666	na
WATERLOO	na	20,200	20,800	22,200	24,700	27,000	29,000	29,700	31,241	33,700
WESTERN	18,325	19,000	19,650	20,825	23,200	25,000	26,500	26,500	27,825	28,840
WINDSOR	19,200	19,200	19,600	20,375	22,620	24,620	26,820	29,200	30,681	32,215
WILFRID LAURIER	19,200	19,800	19,800	21,400	24,285	26,350	28,330	29,520	31,115	33,230
YORK	18,200	19,000	na	21,150	23,370	25,540	27,200	27,610	29,600	31,140
AVERAGE	18,761	19,052	20,046	21,333	23,491	25,312	27,141	28,111	29,910	31,956

NOTES: 1. Excludes medical/dental
2. na = not available

SOURCE: Statistics Canada: Salary Scales at Canadian Universities
1979/80 and 1980/81 data from Council of Ontario Universities Salary Survey

Table 4.6.2 Minimum Salary Scale for Associate Professors at Ontario Universities 1971/72 - 1980/81

INSTITUTION	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81
BROCK	14,700	15,100	15,500	16,400	18,250	19,875	21,225	21,860	22,950	24,560
CARLETON	14,400	14,700	15,650	15,650	15,650	19,250	20,350	20,910	22,060	23,800
GUELPH	14,700	15,250	15,800	17,200	19,300	20,800	22,168	23,055	24,484	25,708
LAKEHEAD	14,870	15,320	15,935	17,235	18,095	19,895	20,960	21,485	na	na
LAURENTIAN	15,500	15,500	16,275	17,658	20,010	21,710	23,204	23,900	25,088	26,724
McMASTER	14,400	14,900	15,500	16,600	18,500	20,000	21,300	21,950	23,050	24,775
OTTAWA	13,940	14,880	15,475	16,650	18,150	19,803	21,189	22,460	23,807	25,712
SAINT-PAUL	na	12,500	na	na	na	17,394	19,133	21,000	na	na
QUEEN'S	14,800	na	15,800	17,000	19,000	20,600	21,750	22,200	23,225	25,000
TORONTO	13,400	13,800	14,300	20,300	17,100	18,500	19,600	20,300	21,400	23,100
TRENT	14,600	15,240	15,780	16,800	18,500	19,700	21,550	22,055	23,162	na
WATERLOO	na	15,400	15,900	17,000	18,900	20,600	22,200	22,700	23,890	25,800
WESTERN	13,850	14,350	14,850	15,725	17,525	19,000	20,300	20,300	21,315	22,090
WINDSOR	15,650	15,650	16,050	16,700	18,540	19,840	21,240	22,740	23,877	25,071
WILFRID LAURIER	14,800	15,250	15,350	16,920	18,570	20,150	21,665	22,575	23,795	25,415
YORK	13,700	14,340	na	15,950	17,620	19,260	20,510	21,040	22,550	23,720
AVERAGE	14,522	14,812	15,583	16,919	18,247	19,774	21,147	21,908	23,190	24,729

NOTES: 1. Excludes medical/dental
2. na = not available

SOURCE: Statistics Canada: Salary Scales at Canadian Universities
1979/80 and 1980/81 data from Council of Ontario Universities Salary Survey

Table 4.6.3 Minimum Salary Scale for Assistant Professors at Ontario Universities 1971/72 - 1980/81

INSTITUTION	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81
BROCK	11,700	12,200	12,300	13,000	14,470	15,770	16,840	17,350	18,220	19,490
CARLETON	11,300	11,500	12,375	12,375	12,375	15,200	16,050	16,490	17,400	19,040
GUELPH	11,500	11,900	12,350	13,500	15,200	16,400	17,535	18,236	18,800	20,116
LAKEHEAD	11,915	12,275	12,765	13,865	14,560	16,020	16,835	17,255	na	na
LAURENTIAN	12,200	12,200	12,810	13,899	15,855	17,389	18,585	19,143	20,094	21,404
McMASTER	11,100	11,500	12,000	12,850	14,300	15,500	16,500	17,000	17,850	19,175
OTTAWA	10,660	11,656	12,030	12,945	14,110	15,396	16,474	17,462	18,509	19,990
SAINT-PAUL	na	9,500	na	na	na	15,433	16,670	18,100	na	na
QUEEN'S	11,300	na	12,000	12,900	14,500	15,725	16,600	17,000	17,800	19,175
TORONTO	10,800	11,100	11,500	12,300	13,800	15,000	15,900	16,500	17,400	18,800
TRENT	11,250	11,950	12,370	13,170	14,500	14,900	16,350	16,735	17,570	na
WATERLOO	na	11,900	12,300	13,100	14,500	15,900	17,100	17,500	18,377	19,800
WESTERN	11,475	11,900	12,300	13,025	14,500	16,000	17,000	17,000	17,850	18,500
WINDSOR	11,750	11,750	12,150	12,625	14,016	15,217	16,517	17,917	18,992	20,132
WILFRID LAURIER	11,600	11,950	12,050	13,000	14,285	15,500	16,665	17,525	18,475	19,730
YORK	11,100	11,650	na	12,970	14,330	15,660	16,680	17,115	18,350	19,300
AVERAGE	11,404	11,656	12,235	13,035	14,353	15,688	16,768	17,400	18,263	19,589

NOTES: 1. Excludes medical/dental
2. na = not available

SOURCE: Statistics Canada: Salary Scales at Canadian Universities
1979/80 and 1980/81 data from Council of Ontario Universities Salary Survey.

Table 4.6.4 Minimum Salary Scale for Rank Below Assistant Professor at Ontario Universities 1971/72 - 1980/81

INSTITUTION	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81
BROCK	9,300	9,500	9,700	10,260	11,420	12,420	13,265	13,660	14,340	15,340
CARLETON	na	na	na	na	na	11,960	12,610	12,960	13,670	15,240
GUELPH	9,500	9,850	10,200	11,100	12,500	13,500	14,482	15,061	15,995	17,115
LAKEHEAD	10,050	10,375	10,790	11,790	12,380	13,620	14,300	14,660	na	na
LAURENTIAN	10,090	10,090	10,595	11,495	12,525	13,926	14,884	15,331	16,093	17,142
McMASTER	8,500	9,000	9,500	10,200	11,350	12,500	13,300	13,700	14,400	15,475
OTTAWA	8,670	8,990	9,350	10,060	10,965	11,964	12,801	13,569	14,383	15,534
SAINT-PAUL	na	7,500	na	na	na	12,036	13,000	14,118	na	na
QUEEN'S	na	na	na	na	na	na	na	na	na	na
TORONTO	8,900	9,200	9,500	10,200	11,400	12,400	13,200	13,700	14,000	15,600
TRENT	8,900	9,480	9,810	10,450	11,500	11,900	13,050	13,357	14,318	na
WATERLOO	na	na	na	na	na	na	na	na	na	na
WESTERN	9,050	9,400	9,725	10,300	11,475	13,000	13,650	13,650	14,355	14,880
WINDSOR	9,450	9,450	9,850	11,000	11,385	12,355	13,285	14,430	15,296	16,214
WILFRID LAURIER	9,400	9,700	9,700	10,250	11,380	12,330	13,330	13,910	14,665	15,660
YORK	8,800	9,270	na	10,310	11,390	12,450	13,260	14,000	15,010	15,790
AVERAGE	9,218	9,370	9,884	10,618	11,639	12,597	13,458	14,008	14,710	15,817

NOTES: 1. Excludes medical/dental.
2. na = not available.

SOURCE: Statistics Canada: Salary Scales at Canadian Universities
1979/80 and 1980/81 data from Council of Ontario Universities Salary Survey

Table 4.7 FTE of Non-Academic Staff in Ontario Universities
1979-80 and 1980-81

INSTITUTION	1979-80				1980-81		
	FTE of Established Positions[1]	Fiscal Year Salary Costs of Established Positions[1]	Average Salary of Established Position[1]	Generated FTE[2]	FTE of Established Positions[1]	Fiscal Year Salary Costs of Established Positions[1]	Average Salary of Established Positions[1]
BROCK	269.5	3,997,481	14,833	279.2	281.5	4,591,781	16,312
CARLETON	868.1	13,689,664	15,770	896.3			
GUELPH	1,558.8	23,919,903	15,345	1,271.0	1,484.5	25,333,522	17,065
LAKEHEAD	359.5	4,957,307	13,789	341.9			
LAURENTIAN	261.0	3,831,118	14,679	285.0	253.0	4,265,366	16,859
McMASTER	1,200.3	17,713,387	14,757	1,201.6	1,172.0	19,032,188	16,239
OTTAWA	1,397.8	21,254,716	15,206	1,326.7	1,201.7	20,849,008	17,350
QUEEN'S	1,225.0	17,697,880	14,449	1,202.6	1,266.7	19,897,000	15,708
TORONTO	4,014.0	63,589,636	15,842	3,912.3	4,407.0	74,636,906	16,936
TRENT	227.1	3,410,500	15,018	226.8			
WATERLOO	1,458.8	22,601,299	15,494	1,416.7	1,442.9	24,307,663	16,846
WESTERN	1,709.4	24,041,276	14,064	1,878.8	1,694.5	26,521,402	15,651
WILFRID LAURIER	316.8	4,544,774	14,347	307.9	321.0	5,210,623	16,232
WINDSOR	689.8	11,363,937	16,474	707.6			
YORK					1,543.0	24,250,438	15,716
OISE	335.2	5,938,411	17,716	234.3	305.2	5,214,926	17,087
RYERSON	483.0	7,746,305	16,038	569.2			
OCA	69.3	1,059,000	15,284	73.0	67.2	978,381	14,559

NOTE: The "Generated FTE" figures may be smaller than the "FTE of established positions" reported by the universities because the university reported numbers are based on an October 1 count which will not reflect vacancies which may appear in some of these positions at other times during the year and because the university figures were not netted out to reflect charges to contract research and ancillary enterprises.

SOURCES: 1. Council of Ontario Universities Survey of Non-Academic Employees
2. Total Revenue and Expenses for Provincially Assisted Universities of Ontario, COFO-UO "Generated FTE" figures were derived by dividing the COFO-UO Total Operating Expenses figures for "Other Salaries and Wages" by the "Average Salary of Established Positions."

FINANCIAL AND CAPITAL

The following page is intended as a synopsis of the contents of this section.

Horizontal and vertical percentages are shown for 1970-71, 1973-74, 1976-77 and 1979-80, for all revenue and expenditure items in the section.

The horizontal (or trend) percentages measure the increase of a particular item in a particular year as a percentage of the same item in 1970-71.

The vertical (or structural) percentages show each item as a percentage of total revenues on total expenditures.

Financial and Capital: System Synopsis

Horizontal Percentages				Item	Vertical Percentages			
70 - 71	73 - 74	76 - 77	79 - 80	A. Non-Financial	70 - 71	73 - 74	76 - 77	79 - 80
100.0	118.8	143.2	135.9	FTE Enrolment (with COFU-UO Exclusions)				
100.0	119.6	134.6	134.1	FTE Faculty (with COFO-UO Exicusions)				
100.0	110.6	139.8	170.8	BIU Value				
100.0	118.9	155.7	201.5	C.P.I.				
100.0	141.3	223.0	273.8	FTE Enrolment X C.P.I.				
				B. Operating Revenue				
100.0	132.8	218.5	269.2	Formula Grants	70.1	73.4	78.0	78.9
100.0	51.1	53.7	36.7	Non-Formula Grants	10.2	4.1	2.8	1.6
100.0	122.4	197.4	239.5	Total Operating Grants	80.3	77.5	80.0	80.5
100.0	146.5	182.1	225.2	Fee Income	16.1	18.6	15.0	15.2
100.0	137.8	234.4	293.1	'Other' Operating Revenue	3.6	3.9	4.2	4.3
100.0	126.8	196.2	239.1	Total Operating Revenue	100.0	100.0	100.0	100.0
				C. Operating Expenditures				
100.0	134.4	206.4	245.3	Salary Expenditures	70.0	71.9	72.0	71.5
100.0	154.3	280.6	334.3	Employee Benefits	5.8	6.8	8.1	8.0
100.0	136.0	212.0	252.1	Salary and Benefits	75.8	78.7	80.1	79.5
100.0	115.3	161.0	197.4	Non-Salary Expenses	24.2	21.3	19.9	20.5
100.0	109.7	137.3	179.4	Library Acquisitions	2.8	2.4	2.0	2.2
100.0	97.3	122.9	139.0	Furniture and Equipment	4.7	3.5	2.9	2.7
100.0	131.6	200.9	244.4	Total Operating Expenditures	100.0	100.0	100.0	100.0
				D. Other				
100.0	120.6	166.2	259.9	Sponsored Research Expenditures				
100.0	41.4	10.0	12.1	Capital Grants				
100.0	27.8	19.0	11.6	Health Sciences Grants				

Table 5.1 Operating Grants in $ Millions by Institution - Ontario Universities 1970-71 to 1980-81 (EST'D)

INSTITUTION	1970	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	80-81 as % of 70-71
BROCK	5.2	5.2	5.8	7.0	7.4	9.4	10.6	11.3	12.0	12.7	13.4	257.7
CARLETON	18.2	16.9	20.0	21.1	25.1	29.2	34.0	36.2	38.4	39.8	42.1	231.3
GUELPH	18.7	18.2	22.3	23.7	29.9	36.1	39.9	43.7	46.6	48.5	51.4	274.9
LAKEHEAD	7.0	7.0	7.6	7.9	8.7	10.4	11.9	12.7	13.0	13.7	14.5	207.1
LAURENTIAN	5.6	5.6	6.2	6.5	8.1	10.3	12.1	13.2	13.5	14.3	15.3	273.2
ALGOMA	0.7	0.7	0.7	0.8	1.4	1.0	1.2	1.2	1.2	1.2	1.2	171.4
NIPISSING	0.3	0.3	0.3	0.8	1.2	1.4	1.7	1.8	2.0	1.9	2.0	666.7
HEARST	-	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.9	0.5	na
McMASTER	24.6	23.7	27.5	28.8	31.5	37.7	43.9	47.6	50.7	52.6	56.2	228.5
OTTAWA	28.1	26.0	31.5	33.5	39.2	44.7	52.1	57.7	60.7	64.6	69.8	248.4
QUEEN'S	24.2	23.7	28.8	30.2	34.0	39.0	44.5	47.3	50.5	53.6	57.7	238.4
TORONTO	87.0	78.1	97.1	101.0	111.5	127.7	143.4	155.3	163.8	172.6	186.6	214.5
TRENT	4.8	4.6	5.0	5.5	5.9	7.0	7.9	8.3	8.5	8.7	9.1	189.6
WATERLOO	29.0	25.7	32.3	34.8	37.2	41.8	48.4	53.1	56.7	59.7	63.9	220.3
WESTERN	34.8	33.1	39.4	40.8	49.8	57.6	66.3	71.1	75.2	79.0	84.3	242.2
WILFRID LAURIER	3.3	2.9	3.4	7.3	8.2	9.4	11.5	12.3	13.3	14.1	15.3	463.6
WINDSOR	14.5	13.3	16.0	17.0	18.9	23.3	28.3	31.1	33.3	34.2	35.5	244.8
YORK	24.3	25.2	30.7	33.1	38.1	43.4	50.6	54.7	57.0	54.4	63.0	259.3
RYERSON	10.7	13.5	14.0	16.4	20.3	24.8	27.6	29.4	31.3	33.1	36.6	342.1
O.C.A.	1.0	1.6	1.7	1.8	2.3	2.9	3.5	3.9	4.3	4.7	5.1	510.0
OISE	3.5	3.9	5.6	5.3	6.4	7.6	8.9	10.2	10.6	11.4	12.3	351.4
OTHER	0.5	0.1	0.5	0.4	0.4	0.4	0.5	1.0	0.9	1.2	2.4	
TOTAL PER PUBLIC ACCOUNTS	346.0	329.5	396.6	423.9	485.8	565.5	649.3	703.6	744.0	781.9	838.2	242.3
FTE ENROLMENT (EST'D.)												127.3
FTE FACULTY (EST'D.)												132.8
C.P.I.												216.3

NOTE: na = not available.

SOURCE: Public Accounts of Ontario

Table 5.1.1 Total University Operating Grants, 1970-71 to 1980-81, as Percentages of Formula Operating Grants (to show degrees of supplementation of formula by non-formula grants)

INSTITUTION	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81
BROCK	136.1	135.6	109.2	123.6	107.4	110.1	102.7	101.6	100.4	100.9	100.5
CARLETON	100.0	100.0	100.8	100.7	105.7	105.9	101.5	100.4	100.1	100.3	100.0
GUELPH	101.2	100.0	98.9	101.7	105.6	105.5	101.5	101.7	101.0	100.6	100.4
LAKEHEAD	131.7	121.3	119.0	117.4	122.1	130.4	125.1	124.4	118.0	116.4	116.1
LAURENTIAN	133.0	145.8	131.6	129.9	134.7	133.2	135.4	134.5	128.1	128.2	127.5
ALGOMA	100.0	100.0	100.0	100.0	168.5	112.2	120.1	119.4	116.1	115.7	116.7
NIPISSING	100.0	100.0	100.0	218.0	201.0	155.8	136.9	128.6	125.0	113.6	115.2
HEARST	na	115.0	104.9	107.7	144.9	150.6	174.3	187.8	183.2	307.5	155.7
McMASTER	108.9	106.5	102.1	103.3	100.0	100.6	101.5	101.0	100.3	100.3	100.3
OTTAWA	117.9	106.1	105.6	107.7	107.9	107.2	107.6	109.0	107.1	108.6	108.2
QUEEN'S	106.1	99.6	100.7	101.5	103.3	103.5	103.4	100.6	100.1	100.0	100.0
TORONTO	110.9	102.4	103.5	103.2	100.6	100.8	101.2	101.2	100.5	100.4	100.4
TRENT	162.6	159.5	137.4	142.9	140.4	137.1	129.4	123.2	115.7	113.0	110.9
WATERLOO	99.1	97.8	101.4	105.6	100.0	100.4	100.8	100.6	100.1	100.3	100.1
WESTERN	106.4	99.9	100.6	99.6	101.6	100.7	101.0	100.5	100.1	100.1	100.0
WILFRID LAURIER	103.0	100.0	100.0	100.8	100.0	100.7	101.2	100.3	100.2	100.2	100.0
WINDSOR	107.4	101.9	106.5	105.9	100.8	104.5	101.4	101.4	100.0	100.0	100.0
YORK	101.1	102.9	100.6	102.4	103.5	103.4	102.9	102.5	100.4	100.3	100.2
RYERSON	na	105.3	101.2	114.2	117.1	100.0	106.9	107.2	100.9	100.6	100.4
O.C.A.	na	na	na	na	na	na	102.7	101.6	100.0	100.4	100.0
OISE	na	106.3	108.2	100.4	98.7	98.2	98.6	103.8	101.9	101.1	98.7
SYSTEM	113.7	104.3	103.9	105.3	104.8	104.8	103.6	103.3	101.9	102.0	101.9

NOTES: 1. %'s above result from: 100 x operating grants per Public Accounts ÷ formula operating grants from MCU Statistical Summaries.
2. Some %'s for 1980-81 will go up very slightly when allocations have been completed.
3. Percentages less than 100 indicate negative adjustments.
4. na = not available.

Table 5.2 Operating Grants from Provincial Sources - Ontario Universities
1970-71 through 1979-80
($000)

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	5,214	5,253	5,828	6,642	7,985	9,523	10,754	11,375	12,082	13,040
CARLETON	18,255	17,178	20,100	21,530	25,512	29,631	34,385	36,656	38,783	40,201
GUELPH[2]	18,724	18,411	22,835	24,121	28,818	34,941	40,253	43,927	46,638	48,680
LAKEHEAD	7,022	6,809	7,767	8,038	8,748	10,602	12,157	12,894	13,160	13,877
LAURENTIAN	5,648	5,380	5,984	6,318	7,722	9,657	11,262	12,160	12,682	13,349
McMASTER	24,776	23,448	27,731	29,278	31,961	38,090	44,235	47,977	51,267	53,190
OTTAWA	26,788	26,261	31,370	33,573	39,255	44,794	51,649	56,536	60,864	63,871
QUEEN'S	24,970	23,818	29,030	30,659	34,122	39,008	44,445	47,778	50,984	53,988
TORONTO	79,751	74,334	95,434	101,205	112,847	128,473	143,811	155,656	163,520	172,186
TRENT	4,808	4,368	5,303	5,594	6,020	7,131	7,966	8,372	8,653	8,823
WATERLOO	28,011	26,323	31,978	32,987	36,430	40,841	47,149	51,638	55,137	58,144
WESTERN	31,893	30,329	35,998	42,007	48,303	55,475	63,536	68,360	72,117	75,752
WINDSOR	14,194	13,850	16,106	16,770	19,720	23,560	28,633	31,379	33,653	35,003
YORK	23,876	25,537	31,309	33,578	38,777	44,065	51,136	55,385	57,738	60,407
SUB-TOTAL	**313,930**	**301,299**	**366,773**	**392,300**	**446,220**	**515,791**	**591,371**	**640,093**	**677,278**	**710,511**
ALGOMA	-	671	-	-	954	-	-	1,197	1,363	1,353
NIPISSING	-	284	338	798	1,172	1,399	1,684	1,815	2,007	1,882
HEARST	-	-	188	200	293	385	470	526	503	895
OCA	-	-	-	-	-	-	-	3,989	4,396	4,754
OISE	-	-	-	-	-	10,836	12,288	13,179	12,933	13,916
RYERSON	-	-	-	-	-	25,001	28,405	30,079	31,604	33,409
WILFRID LAURIER	-	-	-	7,403	8,312	9,480	11,564	12,384	13,366	14,169
SUB-TOTAL	**-**	**955**	**526**	**8,401**	**10,731**	**47,101**	**54,411**	**63,169**	**66,172**	**70,378**
TOTAL	**313,930**	**302,254**	**367,299**	**400,701**	**456,951**	**562,892**	**645,782**	**703,262**	**743,450**	**780,889**

FOOTNOTES: 1. Ten month fiscal year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.2.1 Total Provincial Operating Grants as a Percentage of Operating Revenue 1970-71 through 1979-80

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	77.6	76.6	74.2	75.6	76.9	78.4	81.1	80.3	81.8	81.0
CARLETON	75.5	74.6	74.4	75.0	76.9	77.3	79.6	78.7	79.3	79.2
GUELPH[2]	80.2	80.1	78.1	76.6	78.3	79.7	80.9	81.3	81.9	81.6
LAKEHEAD	76.6	75.5	76.9	76.5	77.8	80.4	80.7	79.2	78.7	80.0
LAURENTIAN	76.5	75.9	74.4	74.0	76.1	78.8	80.0	79.0	80.7	80.9
McMASTER	80.7	83.3	81.2	80.9	78.5	80.5	80.3	81.9	81.1	80.9
OTTAWA	80.1	78.6	78.7	77.6	78.9	80.2	82.7	82.8	83.3	82.2
QUEEN'S	82.6	79.9	80.5	80.0	81.4	82.9	83.4	82.4	83.6	83.3
TORONTO	82.0	81.4	80.4	80.0	80.2	78.5	80.6	80.7	79.6	79.7
TRENT	81.0	78.8	78.4	79.3	76.1	78.0	78.7	77.0	79.1	77.3
WATERLOO	78.8	78.5	77.7	76.6	76.9	79.5	81.3	80.4	80.9	80.4
WESTERN	80.0	77.7	76.7	76.0	76.6	78.0	80.9	80.2	80.9	81.1
WINDSOR	75.4	75.5	76.1	75.0	75.9	78.6	80.0	79.9	81.9	80.7
YORK	76.6	75.3	76.2	75.9	75.9	77.3	78.6	78.4	78.2	77.1
SUB-TOTAL	**79.7**	**78.9**	**78.4**	**77.8**	**78.2**	**79.1**	**80.8**	**80.6**	**80.7**	**80.4**
ALGOMA	-	64.2	-	-	72.0	-	-	75.6	76.1	75.0
NIPISSING	-	61.2	61.7	72.3	74.3	73.4	75.0	76.9	80.1	78.4
HEARST	-	-	66.2	67.1	71.6	75.6	72.9	72.8	69.9	90.4
OCA	-	-	-	-	-	-	-	80.2	80.2	78.4
OISE	-	-	-	-	-	91.7	92.4	87.8	85.6	87.2
RYERSON	-	-	-	-	-	81.6	81.5	80.1	80.2	81.8
WILFRID LAURIER	-	-	-	69.1	72.6	72.9	75.1	74.3	76.5	75.3
SUB-TOTAL	**-**	**63.3**	**63.2**	**69.3**	**72.7**	**81.4**	**81.9**	**80.1**	**80.2**	**81.0**
TOTAL	**79.7**	**78.8**	**78.3**	**77.6**	**78.1**	**79.3**	**80.9**	**80.5**	**80.7**	**80.5**

FOOTNOTES: 1. Ten month fiscal year

2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.3 "Other" Operating Revenue
1970-71 through 1979-80
($000)

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	78	58	76	96	144	205	158	113	201	248
CARLETON	357	245	317	375	570	853	995	1,326	1,845	1,781
GUELPH[2]	1,018	764	1,069	1,388	1,695	2,217	2,624	2,105	2,655	2,982
LAKEHEAD	231	294	295	449	463	410	561	538	757	681
LAURENTIAN	209	293	379	340	346	401	483	778	590	662
McMASTER	1,271	401	386	348	1,633	1,512	3,002	2,185	3,207	3,595
OTTAWA	1,143	1,024	1,269	1,562	1,773	1,666	1,530	1,554	1,739	2,308
QUEEN'S	680	625	714	797	934	1,001	1,398	1,600	1,351	1,250
TORONTO	6,163	4,918	6,840	7,725	9,383	13,149	12,908	11,046	14,564	13,664
TRENT	118	33	22	46	321	307	359	343	305	525
WATERLOO	1,412	1,365	1,446	2,015	2,513	1,597	1,629	1,781	2,040	2,300
WESTERN	1,192	1,404	2,164	3,086	3,992	3,118	3,225	3,490	4,131	3,900
WINDSOR	295	344	330	524	867	210	674	646	760	1,114
YORK	254	325	454	873	1,806	1,668	2,253	2,344	3,089	4,093
SUB TOTAL	**14,421**	**12,093**	**15,761**	**19,624**	**26,440**	**28,314**	**31,799**	**29,849**	**37,234**	**39,103**
ALGOMA	-	22	-	-	12	-	-	48	113	173
NIPISSING	-	3	-	33	61	83	100	102	119	132
HEARST	-	-	2	4	11	25	86	116	116	22
OCA	-	-	-	-	-	-	-	70	134	214
OISE	-	-	-	-	-	496	515	984	1,253	1,045
RYERSON	-	-	-	-	-	649	946	913	531	828
WILFRID LAURIER	-	-	-	216	70	185	352	386	529	750
SUB-TOTAL	**-**	**25**	**2**	**253**	**154**	**1,438**	**1,999**	**2,619**	**2,795**	**3,164**
TOTAL	**14,421**	**12,118**	**15,763**	**19,877**	**26,594**	**29,752**	**33,798**	**32,468**	**40,029**	**42,267**

FOOT NOTES: 1. Ten month fiscal year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.3.1 "Other" Operating Revenue as a Percentage of Total Operating Revenue
1970-71 through 1979-80

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	1.2	0.8	1.0	1.1	1.4	1.7	1.2	0.8	1.4	1.5
CARLETON	1.5	1.1	1.2	1.3	1.7	2.2	2.3	2.8	3.8	3.5
GUELPH[2]	4.4	3.3	3.7	4.4	4.6	5.1	5.3	3.9	4.7	5.0
LAKEHEAD	2.5	3.3	2.9	4.3	4.1	3.1	3.7	3.3	4.5	3.9
LAURENTIAN	2.8	4.1	4.7	4.0	3.4	3.3	3.4	5.1	3.8	4.0
McMASTER	4.1	1.4	1.1	1.0	4.0	3.2	5.4	3.7	5.1	5.5
OTTAWA	3.4	3.1	3.2	3.6	3.6	3.0	2.4	2.3	2.4	3.0
QUEEN'S	2.2	2.1	2.0	2.1	2.2	2.1	2.6	2.8	2.2	1.9
TORONTO	6.3	5.4	5.8	6.1	6.7	8.0	7.2	5.7	7.1	6.3
TRENT	2.0	0.6	0.3	0.7	4.1	3.4	3.5	3.2	2.8	4.6
WATERLOO	4.0	4.1	3.5	4.7	5.3	3.1	2.8	2.8	3.0	3.2
WESTERN	3.0	3.6	4.6	5.6	6.3	4.4	4.1	4.1	4.6	4.2
WINDSOR	1.6	1.9	1.6	2.3	3.3	0.7	1.9	1.6	1.9	2.6
YORK	0.8	1.0	1.1	2.0	3.5	2.9	3.5	3.3	4.2	5.2
SUB-TOTAL	**3.7**	**3.2**	**3.4**	**3.9**	**4.6**	**4.3**	**4.3**	**3.8**	**4.4**	**4.4**
ALGOMA	-	2.1	-	-	0.9	-	-	3.0	6.3	9.6
NIPISSING	-	0.6	-	3.0	3.9	4.4	4.5	4.0	4.7	5.5
HEARST	-	-	0.7	1.3	2.7	4.9	13.3	16.0	16.1	2.2
OCA	-	-	-	-	-	-	-	1.4	2.4	3.5
OISE	-	-	-	-	-	4.2	3.9	6.5	8.3	6.5
RYERSON	-	-	-	-	-	2.1	2.7	2.4	1.3	2.0
WILFRID LAURIER	-	-	-	2.0	0.6	1.4	2.3	2.3	3.0	4.0
SUB-TOTAL	-	**1.7**	**0.7**	**2.1**	**1.0**	**2.5**	**3.0**	**3.3**	**3.4**	**3.6**
TOTAL	**3.7**	**3.2**	**3.4**	**3.8**	**4.5**	**4.2**	**4.2**	**3.7**	**4.3**	**4.4**

FOOTNOTES: 1. Ten month fiscal year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.3.2 Total Operating Revenue - Ontario Universities
1970-71 through 1979-80 ($000)

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	6,723	6,866	7,854	8,785	10,379	12,147	13,260	14,168	14,778	16,101
CARLETON	24,170	23,033	27,032	28,706	33,170	38,350	43,221	46,561	48,932	50,761
GUELPH[2]	23,346	22,998	29,224	31,486	36,814	43,867	49,736	54,018	56,979	59,626
LAKEHEAD	9,167	9,021	10,101	10,503	11,244	13,191	15,071	16,282	16,714	17,349
LAURENTIAN	7,381	7,087	8,048	8,541	10,141	12,249	14,070	15,392	15,708	16,496
McMASTER	30,686	28,138	34,132	36,169	40,729	47,337	55,120	58,613	63,238	65,765
OTTAWA	33,463	33,397	39,848	43,255	49,774	55,827	62,485	68,289	73,039	77,710
QUEEN'S	30,238	29,803	36,080	38,321	41,897	47,053	53,310	57,948	61,019	64,797
TORONTO	97,249	91,362	118,635	126,492	140,757	163,761	178,443	192,803	205,450	216,166
TRENT	5,936	5,545	6,761	7,051	7,914	9,148	10,124	10,871	10,936	11,421
WATERLOO	35,554	33,553	41,180	43,081	47,387	51,347	57,987	64,223	68,174	72,348
WESTERN	39,874	39,048	46,940	55,276	63,058	71,106	78,570	85,191	891,979	93,349
WINDSOR	18,836	18,343	21,159	22,366	25,973	29,973	35,769	39,282	41,070	43,381
YORK	31,141	33,897	41,095	44,258	51,111	56,973	65,090	70,606	73,877	78,299
SUB TOTAL	**393,764**	**382,091**	**468,089**	**504,290**	**570,348**	**652,329**	**732,256**	**794,247**	**839,093**	**885,569**
ALGOMA	-	1,045	-	-	1,325	-	-	1,583	1,791	1,805
NIPISSING	-	464	548	1,104	1,578	1,907	2,244	2,361	2,506	2,401
HEARST	-	-	284	298	409	509	645	723	720	990
OCA	-	-	-	-	-	-	-	4,974	5,484	6,060
OISE	-	-	-	-	-	11,822	13,301	15,014	15,111	15,966
RYERSON	-	-	-	-	-	30,644	34,835	37,535	39,391	40,852
WILFRID LAURIER	-	-	-	10,712	11,448	13,007	15,398	16,674	17,462	18,822
SUB-TOTAL	**-**	**1,509**	**832**	**12,114**	**14,760**	**57,889**	**66,423**	**78,864**	**82,465**	**86,896**
TOTAL	**393,764**	**383,600**	**468,921**	**516,404**	**585,108**	**710,218**	**798,679**	**873,111**	**921,558**	**970,465**

FOOTNOTES: 1. Ten month fiscal year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.3.3 Annual Percentage Increases in Total Operating Revenue Ontario Universities 1970-71 through 1979-80

INSTITUTION	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	-	22.5	(4.7)[3]	11.8	18.1	17.0	9.2	6.8	4.3	8.9
CARLETON	-	14.4	(2.2)	6.2	15.5	15.6	12.7	7.7	5.1	3.7
GUELPH[4]	-	18.2	5.9	7.7	16.9	19.2	13.4	8.6	5.5	4.6
LAKEHEAD	-	18.1	(6.7)	4.0	7.1	17.3	14.2	8.0	2.6	3.8
LAURENTIAN	-	15.2	(5.4)	6.1	18.7	20.8	14.9	9.4	2.0	5.0
McMASTER	-	10.0	1.1	6.0	12.6	16.2	16.4	6.3	7.9	4.0
OTTAWA	-	19.8	(0.6)	8.5	15.1	12.2	11.9	9.3	7.0	6.4
QUEEN'S	-	18.3	0.9	6.2	9.3	12.3	13.3	8.7	5.3	6.2
TORONTO	-	12.7	8.2	6.6	11.3	16.3	9.0	8.0	6.6	5.2
TRENT	-	12.1	1.6	4.3	12.2	15.6	10.7	7.4	0.6	4.4
WATERLOO	-	13.2	2.3	4.6	10.0	8.4	12.9	10.7	6.1	6.1
WESTERN	-	17.5	0.2	17.8	14.1	12.8	10.5	8.4	4.7	4.7
WINDSOR	-	16.9	(3.9)	5.7	16.1	15.4	19.3	9.8	4.5	5.6
YORK	-	30.6	1.0	7.7	15.5	11.5	14.2	8.5	4.6	6.0
SUB TOTAL	**-**	**16.4**	**2.1**	**7.7**	**13.1**	**14.4**	**12.3**	**8.5**	**5.6**	**5.3**
ALGOMA	-	-	-	-	-	-	-	-	13.1	0.8
NIPISSING	-	-	(1.6)	101.5	43.0	20.8	17.7	5.2	6.1	(4.2)
HEARST	-	-	-	4.9	37.2	24.4	26.7	12.1	(0.4)	37.5
OCA	-	-	-	-	-	-	-	-	10.2	10.5
OISE	-	-	-	-	-	-	12.5	12.9	0.6	5.7
RYERSON	-	-	-	-	-	-	13.7	7.7	4.9	3.7
WILFRID LAURIER	-	-	-	-	6.9	13.6	18.4	8.3	4.7	7.8
SUB-TOTAL	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**4.6**	**5.4**
TOTAL	**-**	**16.4**	**2.1**	**7.7**	**13.1**	**14.4**	**12.3**	**8.5**	**5.5**	**5.3**

FOOTNOTES: 1. Data for 1970-71 increases not available from comparable source.
2. Based on annualized ten month fiscal year figures
3. Parentheses indicate a percentage decrease.
4. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.4 Operating Income from Fees
1970-71 through 1979-80
($000)

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	1,431	1,555	1,950	2,047	2,250	2,419	2,348	2,680	2,495	2,813
CARLETON	5,558	5,610	6,615	6,801	7,088	7,866	7,841	8,579	8,340	8,779
GUELPH[2]	3,604	3,823	5,320	5,977	6,301	6,709	6,859	7,986	7,686	7,964
LAKEHEAD	1,914	1,918	2,039	2,016	2,033	2,179	2,353	2,850	2,797	2,791
LAURENTIAN	1,524	1,414	1,685	1,883	2,073	2,191	2,325	2,454	2,436	2,485
McMASTER	4,639	4,289	6,015	6,543	7,135	7,735	7,883	8,451	8,764	8,980
OTTAWA	5,532	6,112	7,209	8,120	8,746	9,367	9,306	10,199	10,436	11,531
QUEEN'S	4,588	5,360	6,336	6,865	6,841	7,044	7,467	8,570	8,684	9,559
TORONTO	11,335	12,110	16,361	17,562	18,527	22,139	21,724	26,101	27,366	30,316
TRENT	1,010	1,144	1,436	1,411	1,573	1,710	1,799	2,156	1,978	2,073
WATERLOO	6,131	5,865	7,756	8,079	8,444	8,909	9,209	10,804	10,997	11,904
WESTERN	6,789	7,315	8,778	10,183	10,863	12,513	11,809	13,341	12,931	13,697
WINDSOR	4,347	4,149	4,723	5,072	5,386	6,203	6,462	7,257	6,657	7,264
YORK	7,011	8,035	9,322	9,807	10,528	11,240	11,701	12,877	13,050	13,799
SUB TOTAL	**65,413**	**68,699**	**85,545**	**92,366**	**97,688**	**108,224**	**109,086**	**124,305**	**124,581**	**133,955**
ALGOMA	-	352	-	-	359	-	-	338	315	279
NIPISSING	-	177	210	273	345	425	460	453	380	387
HEARST	-	-	94	94	105	99	89	81	101	73
OCA	-	-	-	-	-	-	-	915	954	1,092
OISE	-	-	-	-	-	490	498	851	925	1,005
RYERSON	-	-	-	-	-	4,994	5,484	6,543	7,256	6,615
WILFRID LAURIER	-	-	-	3,093	3,066	3,342	3,482	3,904	3,567	3,903
SUB-TOTAL	**-**	**529**	**304**	**3,460**	**3,875**	**9,350**	**10,013**	**13,085**	**13,498**	**13,354**
TOTAL	**65,413**	**69,228**	**85,849**	**95,826**	**101,563**	**117,574**	**119,099**	**137,390**	**138,079**	**147,309**

FOOTNOTES: 1. Ten month fiscal year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.4.1 Fees as a Percentage of Total Operating Revenue 1970-71 through 1979-80

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	21.3	22.6	24.8	23.3	21.6	19.9	17.7	19.9	16.8	17.5
CARLETON	23.0	24.3	24.5	23.7	21.4	20.5	18.2	18.4	17.0	17.3
GUELPH[2]	15.4	16.6	18.2	19.0	17.1	15.3	13.8	14.8	13.5	13.3
LAKEHEAD	20.9	21.3	20.2	19.2	18.1	16.5	15.6	17.5	16.7	16.1
LAURENTIAN	20.6	20.0	20.9	22.0	20.5	17.9	16.5	15.9	15.5	15.0
McMASTER	15.1	15.3	17.6	18.0	17.5	16.3	14.3	14.4	13.9	13.7
OTTAWA	16.5	18.3	18.1	18.8	17.6	16.8	14.9	15.0	14.2	14.8
QUEEN'S	15.2	18.0	17.5	17.9	16.4	14.9	14.0	14.8	14.2	14.7
TORONTO	11.7	13.3	13.8	13.9	13.2	13.5	12.2	13.5	13.3	14.0
TRENT	17.0	20.6	21.3	20.0	19.8	18.7	17.8	19.9	18.1	18.1
WATERLOO	17.3	17.4	18.8	18.7	17.9	17.3	15.9	16.8	16.1	16.5
WESTERN	17.0	18.7	18.7	18.4	17.1	17.6	15.0	15.7	14.5	14.7
WINDSOR	23.1	22.7	22.3	22.7	20.7	20.7	18.1	18.5	16.3	16.7
YORK	22.5	23.7	22.7	22.2	20.6	19.7	18.0	18.2	17.7	17.6
SUB TOTAL	**16.6**	**18.0**	**18.3**	**18.3**	**17.1**	**16.6**	**14.9**	**15.7**	**14.8**	**15.2**
ALGOMA	-	33.7	-	-	27.1	-	-	21.4	17.6	15.5
NIPISSING	-	38.1	38.4	24.7	21.9	22.3	20.5	19.2	15.2	16.1
HEARST	-	-	33.1	31.5	25.6	19.5	13.8	11.2	14.0	7.4
OCA	-	-	-	-	-	-	-	18.4	17.4	18.0
OISE	-	-	-	-	-	4.1	3.7	5.7	6.1	6.3
RYERSON	-	-	-	-	-	16.3	15.8	17.5	18.4	16.2
WILFRID LAURIER	-	-	-	28.9	26.7	25.6	22.6	23.4	20.5	20.7
SUB-TOTAL	**-**	**35.1**	**36.5**	**28.6**	**26.3**	**16.2**	**15.1**	**16.6**	**16.4**	**15.4**
TOTAL	**16.6**	**18.0**	**18.3**	**18.6**	**17.4**	**16.6**	**14.9**	**15.7**	**15.0**	**15.2**

FOOTNOTES: 1. Ten Month Fiscal Year

2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.5 Salary Expenditures as a Percentage of Operating Expenses
1970-71 through 1979-80

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	68.3	69.0	71.1	70.4	68.1	69.2	69.8	70.8	72.2	70.5
CARLETON	65.4	69.1	72.0	71.3	69.3	70.9	70.5	70.5	71.2	72.0
GUELPH[2]	73.2	73.2	74.2	73.5	73.2	72.5	72.0	77.0	76.7	70.6
LAKEHEAD	70.1	72.2	72.5	70.1	71.3	71.8	71.1	69.9	72.3	71.8
LAURENTIAN	67.6	70.7	72.5	72.5	71.8	69.7	69.6	70.6	70.3	69.4
McMASTER	69.5	69.2	71.6	70.8	72.1	72.2	69.9	71.0	68.4	69.1
OTTAWA	66.8	68.6	71.5	69.6	70.5	70.9	71.0	71.9	72.6	70.9
QUEEN'S	73.1	72.6	74.5	74.6	74.3	75.0	74.6	76.1	74.7	74.4
TORONTO	69.0	68.6	69.0	70.0	69.5	69.7	71.3	71.4	70.8	70.8
TRENT	68.9	69.5	72.2	73.5	71.3	70.6	71.0	71.6	73.3	73.4
WATERLOO	69.4	72.1	71.1	70.7	70.9	72.0	73.5	72.2	73.1	72.8
WESTERN	70.7	67.8	73.6	74.5	73.0	71.7	73.0	72.8	72.1	71.8
WINDSOR	75.6	74.0	77.8	76.1	75.3	75.6	73.5	73.2	73.7	71.7
YORK	73.0	73.9	75.8	74.2	75.2	75.2	75.4	75.3	74.6	73.8
SUB TOTAL	**70.0**	**70.3**	**72.1**	**71.9**	**71.6**	**71.8**	**72.1**	**72.7**	**72.5**	**71.6**
ALGOMA	-	50.5	-	-	66.1	-	-	71.9	67.7	71.6
NIPISSING	-	70.0	71.6	74.9	70.8	69.5	65.7	69.5	62.5	70.8
HEARST	-	-	62.2	67.7	73.5	61.2	56.8	57.3	57.9	38.8
OCA	-	-	-	-	-	-	-	71.4	73.7	71.5
OISE	-	-	-	-	-	75.4	75.7	75.7	73.3	73.6
RYERSON	-	-	-	-	-	73.0	70.5	71.0	73.8	71.9
WILFRID LAURIER	-	-	-	71.2	65.4	68.4	67.6	66.6	68.3	67.7
SUB-TOTAL	**-**	**55.3**	**68.5**	**71.4**	**66.3**	**72.4**	**70.6**	**70.8**	**70.4**	**70.9**
TOTAL	**70.0**	**70.3**	**72.1**	**71.9**	**71.5**	**71.8**	**72.0**	**72.5**	**72.3**	**71.5**

FOOTNOTES: 1. Ten Month Fiscal Year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.6 Employee Benefits Operating Expenditures as a Percentage of Operating Expenses 1970-71 through 1979-80

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	6.1	6.3	6.7	6.8	6.8	7.2	7.8	7.9	7.9	7.6
CARLETON	5.0	5.6	6.3	6.6	7.0	7.0	7.9	7.7	7.7	8.1
GUELPH[2]	4.7	6.3	7.9	6.7	8.5	9.3	9.3	9.4	9.7	7.1
LAKEHEAD	5.5	5.6	6.1	5.5	6.7	6.6	7.0	7.2	7.2	6.7
LAURENTIAN	4.1	4.9	5.7	5.7	5.9	7.0	7.7	7.7	8.0	8.0
McMASTER	7.3	7.8	8.9	9.8	8.2	8.4	8.7	9.0	9.4	8.6
OTTAWA	6.6	6.4	7.1	7.4	7.8	8.6	8.8	8.9	8.3	8.3
QUEEN'S	5.8	5.9	6.6	6.9	6.9	7.0	7.2	7.1	7.1	7.0
TORONTO	6.2	6.2	6.1	6.2	6.4	7.1	8.3	8.2	8.5	8.8
TRENT	6.0	6.2	6.9	7.4	6.9	6.8	7.7	7.2	6.7	6.7
WATERLOO	5.0	5.2	5.3	5.3	5.4	6.0	7.0	7.0	7.4	6.6
WESTERN	6.1	7.6	8.1	7.8	8.1	10.2	8.8	8.9	10.1	9.3
WINDSOR	4.1	5.2	6.4	7.1	7.7	8.0	8.8	8.9	10.1	8.8
YORK	5.9	5.9	6.5	6.5	6.7	6.8	7.0	7.3	7.6	7.2
SUB TOTAL	**5.8**	**6.2**	**6.7**	**6.9**	**7.1**	**7.7**	**8.2**	**8.2**	**8.5**	**8.1**
ALGOMA	-	3.5	-	-	5.3	-	-	4.9	5.1	5.4
NIPISSING	-	4.8	4.6	6.1	6.3	5.8	5.1	5.8	5.1	6.1
HEARST	-	-	1.8	2.0	2.0	4.0	5.9	6.2	6.9	4.3
OCA	-	-	-	-	-	-	-	4.5	4.8	5.0
OISE	-	-	-	-	-	5.0	5.9	3.6	4.3	5.7
RYERSON	-	-	-	-	-	8.0	8.0	8.1	8.7	8.6
WILFRID LAURIER	-	-	-	4.5	5.1	6.4	7.0	9.7	7.3	9.2
SUB-TOTAL	**-**	**3.8**	**3.7**	**4.6**	**5.2**	**6.9**	**7.3**	**7.3**	**7.0**	**7.8**
TOTAL	**5.8**	**6.2**	**6.7**	**6.8**	**7.0**	**7.7**	**8.1**	**8.1**	**8.4**	**8.0**

FOOTNOTES: 1. Ten Month Fiscal Year

2. Excludes Ontario Ministry of Agriculture & Food

NOTE: Employee Benefits include expenses for pensions (including payments for actuarial deficiencies and past service liability), group life insurance, O.H.I.P., salary continuance insurance, dental plans, cost of Workmen's Compensation, free tuition, unemployment insurance, and other costs of an employee benefit programme.

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.6.1 Operating Fund Expenses for Employee Benefits as a Percentage of Salaries and Wages 1970-71 through 1979-80

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	8.9	9.1	9.4	9.6	9.9	10.4	11.2	11.2	10.9	10.8
CARLETON	7.7	8.1	8.7	9.2	10.1	9.8	11.2	10.9	10.8	11.2
GUELPH[2]	6.4	8.5	10.6	9.1	11.6	12.8	12.9	12.3	12.6	10.1
LAKEHEAD	7.9	7.6	8.3	9.3	9.4	9.2	9.8	10.3	9.9	9.4
LAURENTIAN	6.1	6.9	7.9	7.8	8.2	10.0	11.1	10.9	11.3	11.5
McMASTER	10.6	11.2	12.5	13.9	11.4	11.7	12.5	12.7	13.8	12.4
OTTAWA	9.7	9.4	9.9	10.6	11.1	12.1	12.4	12.3	11.4	11.6
QUEEN'S	8.0	8.1	8.9	9.2	9.2	9.3	9.6	9.4	9.5	9.4
TORONTO	8.9	9.0	8.8	8.9	9.1	10.2	11.7	11.5	12.0	12.5
TRENT	8.7	9.0	9.5	10.1	9.8	9.6	10.9	10.1	9.2	9.1
WATERLOO	7.2	7.2	7.5	7.6	7.6	8.4	9.5	9.7	10.1	9.0
WESTERN	8.6	11.2	11.0	10.4	11.0	14.2	12.0	12.2	14.1	13.0
WINDSOR	5.5	7.0	8.2	9.3	10.3	10.5	11.9	12.2	13.7	11.2
YORK	8.1	8.0	8.6	8.7	8.9	9.0	9.2	9.7	10.2	9.7
SUB TOTAL	**8.3**	**8.8**	**9.3**	**9.5**	**9.8**	**10.7**	**11.3**	**11.2**	**11.7**	**11.3**
ALGOMA	-	6.9	-	-	7.9	-	-	6.8	7.6	7.5
NIPISSING	-	6.8	6.4	8.2	8.9	8.3	7.8	8.4	8.2	8.5
HEARST	-	-	2.8	3.0	2.7	6.6	10.5	10.9	12.0	11.2
OCA	-	-	-	-	-	-	-	6.3	6.5	6.9
OISE	-	-	-	-	-	6.6	7.8	4.7	5.8	7.7
RYERSON	-	-	-	-	-	11.0	11.4	11.4	11.8	12.0
WILFRID LAURIER	-	-	-	6.3	7.9	9.3	10.4	14.6	10.7	13.5
SUB-TOTAL	**-**	**6.9**	**5.4**	**6.4**	**7.8**	**9.5**	**10.3**	**10.4**	**9.9**	**11.0**
TOTAL	**8.3**	**8.8**	**9.3**	**9.4**	**9.8**	**10.6**	**11.2**	**11.2**	**11.6**	**11.2**

FOOTNOTES: 1. Ten Month Fiscal Year

2. Excludes Ontario Ministry of Agriculture & Food

NOTE: Employee Benefits include expenses for pensions (including payments for actuarial deficiencies and past service liability), group life insurance, O.H.I.P., salary continuance insurance, dental plans, cost of Workmen's Compensation, free tuition, unemployment insurance, and other costs of an employee benefit programme.

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.7 Non-Salary Operating Expenditures as a Percentage of Total Operating Expenses 1970-71 through 1979-80

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	25.6	24.7	22.2	22.8	25.1	23.6	22.4	21.3	19.9	21.9
CARLETON	29.6	25.3	21.7	22.1	23.7	22.1	21.6	21.8	21.1	19.9
GUELPH[2]	22.1	20.5	17.9	19.8	18.3	18.2	18.7	13.6	13.6	22.3
LAKEHEAD	24.4	22.2	21.4	23.4	22.0	21.6	21.9	22.9	20.5	21.5
LAURENTIAN	28.3	24.4	21.8	21.8	22.3	23.3	22.7	21.7	21.7	22.6
McMASTER	23.2	23.0	19.5	19.4	19.7	19.4	21.4	20.0	22.2	22.3
OTTAWA	26.6	25.0	21.4	23.0	21.7	20.5	20.2	19.2	19.1	20.8
QUEEN'S	21.1	21.5	18.9	18.5	18.8	18.0	18.2	16.8	18.2	18.6
TORONTO	24.8	25.2	24.9	23.8	24.1	23.2	20.4	20.4	20.7	20.4
TRENT	25.1	24.3	20.9	19.1	21.8	22.6	21.3	21.2	20.0	19.9
WATERLOO	25.6	22.7	23.6	24.0	23.7	22.0	19.5	20.8	19.5	20.6
WESTERN	23.2	24.6	18.3	17.7	18.9	18.1	18.2	18.3	17.8	18.9
WINDSOR	20.3	20.8	15.8	16.8	17.0	16.4	17.7	17.9	16.2	19.5
YORK	21.1	20.2	24.2	19.3	18.1	18.0	17.6	17.4	17.8	19.0
SUB TOTAL	**24.2**	**23.5**	**21.2**	**21.2**	**21.3**	**20.5**	**19.7**	**19.1**	**19.0**	**20.3**
ALGOMA	-	46.0	-	-	28.6	-	-	23.2	27.2	23.0
NIPISSING	-	25.2	23.8	19.0	22.9	24.7	29.2	24.7	32.4	23.1
HEARST	-	-	36.0	30.3	24.5	34.8	37.3	36.5	35.2	56.9
OCA	-	-	-	-	-	-	-	24.1	21.5	23.5
OISE	-	-	-	-	-	19.6	18.4	20.7	22.4	20.7
RYERSON	-	-	-	-	-	19.0	21.5	20.9	17.5	19.5
WILFRID LAURIER	-	-	-	24.3	29.5	25.2	25.4	23.7	24.4	23.1
SUB-TOTAL	**-**	**40.9**	**27.8**	**24.0**	**28.5**	**20.7**	**22.1**	**21.9**	**22.6**	**21.3**
TOTAL	**24.2**	**23.5**	**21.2**	**21.3**	**21.5**	**20.5**	**19.9**	**19.4**	**19.3**	**20.5**

FOOTNOTES: 1. Ten Month Fiscal Year

2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.8 Library Acquisition Operating Expenses
1970-71 through 1979-80
($000)

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	249	194	213	231	299	371	329	369	378	409
CARLETON	1,020	772	824	915	1,027	913	1,022	1,217	1,128	1,167
GUELPH[2]	524	517	565	657	753	709	952	976	1,113	894
LAKEHEAD	333	301	287	320	312	332	385	458	418	461
LAURENTIAN	303	156	300	274	292	306	300	341	344	338
McMASTER	896	1,054	830	988	1,155	1,208	1,524	1,588	1,857	2,059
OTTAWA	876	982	1,378	1,307	1,243	1,185	1,143	1,250	1,345	1,517
QUEEN'S	965	847	1,001	882	1,029	1,005	1,064	1,087	1,196	1,553
TORONTO	1,956	1,737	2,222	2,386	2,256	2,601	2,539	2,935	3,360	3,907
TRENT	180	256	235	211	299	339	353	409	365	421
WATERLOO	990	897	933	1,066	1,183	1,075	1,143	1,411	1,513	1,648
WESTERN	1,264	1,268	1,352	1,111	1,301	1,555	1,869	1,698	1,986	2,180
WINDSOR	836	843	605	729	897	892	1,039	1,070	1,039	1,129
YORK	1,165	1,100	1,320	1,282	1,184	1,311	1,228	1,316	1,438	1,712
SUB TOTAL	**11,557**	**10,924**	**12,065**	**12,359**	**13,230**	**13,802**	**14,890**	**16,125**	**17,480**	**19,395**
ALGOMA	-	103	-	-	70	-	-	62	75	55
NIPISSING	-	21	15	17	41	55	84	88	98	76
HEARST	-	-	8	10	8	10	12	14	13	12
OCA	-	-	-	-	-	-	-	55	55	54
OISE	-	-	-	-	-	-	-	142	158	168
RYERSON	-	-	-	-	-	-	340	352	267	366
WILFRID LAURIER	-	-	-	295	517	512	541	613	631	613
SUB-TOTAL	**0**	**124**	**23**	**322**	**636**	**577**	**977**	**1,326**	**1,297**	**1,344**
TOTAL	**11,557**	**11,048**	**12,088**	**12,681**	**13,866**	**14,379**	**15,867**	**17,451**	**18,777**	**20,739**

FOOTNOTES: 1. Ten month fiscal year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.9 Operating Expenses for Furniture and Equipment (Purchase and Rental)
1970-71 through 1979-80
($000)

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	248	366	254	169	325	251	271	238	206	321
CARLETON	1,688	1,075	645	793	1,058	958	1,023	1,209	1,230	976
GUELPH[2]	1,086	641	909	993	1,234	1,407	1,633	1,482	1,812	2,109
LAKEHEAD	471	343	348	373	307	267	291	355	346	430
LAURENTIAN	392	293	128	244	176	211	188	307	312	252
McMASTER	810	998	859	1,100	949	1,646	1,414	1,718	2,035	1,371
OTTAWA	1,979	1,524	1,307	1,346	1,397	1,363	1,301	1,395	1,563	2,214
QUEEN'S	1,423	1,510	1,286	887	1,167	1,140	1,574	803	1,182	1,474
TORONTO	4,296	4,556	5,379	5,304	5,590	5,420	4,704	5,841	7,003	5,964
TRENT	23	66	85	46	87	202	160	138	118	111
WATERLOO	2,918	1,679	2,901	3,333	3,141	3,290	2,432	3,099	2,255	2,720
WESTERN	2,213	3,626	2,029	1,769	2,476	2,895	3,138	3,336	3,283	3,409
WINDSOR	841	849	659	708	809	894	1,064	1,010	975	1,241
YORK	662	727	1,053	1,243	871	1,177	1,210	948	1,439	1,759
SUB TOTAL	**19,050**	**18,253**	**17,842**	**18,308**	**19,587**	**21,121**	**20,403**	**21,879**	**23,759**	**24,351**
ALGOMA	-	47	-	-	33	-	-	22	27	14
NIPISSING	-	3	0	2	70	12	63	33	26	20
HEARST	-	-	22	20	10	43	68	17	19	25
OCA	-	-	-	-	-	-	-	149	168	151
OISE	-	-	-	-	-	188	251	260	349	221
RYERSON	-	-	-	-	-	1,034	2,057	1,941	956	1,176
WILFRID LAURIER	-	-	-	207	488	383	574	556	565	522
SUB-TOTAL	**-**	**50**	**22**	**229**	**601**	**1,660**	**3,013**	**2,978**	**2,110**	**2,129**
TOTAL	**19,050**	**18,303**	**17,864**	**18,537**	**20,188**	**22,781**	**23,416**	**24,857**	**25,869**	**26,480**

FOOTNOTES: 1. Ten month fiscal year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.

Table 5.10 Sponsored Research Expenditures in Ontario Universities
1970-71 through 1979-80
($000)

INSTITUTION	1970-71	1971-72[1]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
BROCK	354	226	355	240	350	327	389	546	428	536
CARLETON	1,632	1,692	2,195	2,711	2,909	3,387	3,397	4,104	4,922	5,483
GUELPH[2]	8,440	6,758	8,808	9,373	10,603	13,120	14,413	19,157	21,860	24,086
LAKEHEAD	304	299	453	484	707	732	559	588	796	1,101
LAURENTIAN	253	214	257	254	302	322	366	446	784	893
McMASTER	7,273	6,772	8,901	11,092	13,626	13,017	13,114	16,257	18,816	22,863
OTTAWA	3,467	3,049	4,180	4,160	5,801	6,753	5,980	6,572	8,440	8,531
QUEEN'S	6,198	4,955	5,245	5,350	5,441	5,142	5,310	9,633	11,072	12,112
TORONTO	19,238	17,286	21,965	22,614	25,128	29,320	32,890	38,019	43,926	46,705
TRENT	302	203	245	274	248	235	249	374	437	574
WATERLOO	4,688	3,629	4,666	5,172	5,690	6,876	6,825	7,558	8,207	10,329
WESTERN	6,491	5,775	7,939	9,332	10,607	12,139	12,442	13,764	15,020	17,997
WINDSOR	1,170	895	1,399	1,295	1,406	1,493	1,844	2,161	2,129	2,507
YORK	2,661	2,158	2,930	2,904	2,996	3,666	3,895	4,468	4,869	5,439
SUB TOTAL	**62,471**	**53,911**	**69,538**	**75,255**	**85,814**	**96,529**	**101,673**	**123,647**	**141,706**	**159,156**
ALGOMA	-	-	-	-	-	-	-	-	-	-
NIPISSING	-	-	-	-	-	-	-	-	-	50
HEARST	-	-	-	-	-	-	-	-	14	32
OCA	-	-	-	-	-	-	-	-	-	-
OISE	-	-	-	-	-	1,690	2,041	1,815	2,644	2,405
RYERSON	-	-	-	-	-	98	-	48	-	512
WILFRID LAURIER	-	-	-	67	91	104	99	117	157	207
SUB-TOTAL	**-**	**-**	**-**	**67**	**91**	**1,892**	**2,140**	**1,980**	**2,815**	**3,206**
TOTAL	**62,471**	**53,911**	**69,538**	**75,322**	**85,905**	**98,323**	**103,813**	**125,627**	**144,521**	**162,362**

FOOTNOTES: 1. Ten month fiscal year
2. Excludes Ontario Ministry of Agriculture & Food

SOURCE: COFO-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario

Table 5.11 Financial Information Adjusted for Inflation – Ontario Universities[1]
1970-71 through 1979-80
($000)

	1970-71	1971-72[2]	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
CPI Annual % Increase	-	3.9	5.1	8.9	11.4	9.9	6.9	8.6	9.1	9.2
CPI	100.0	103.9	109.2	118.9	132.5	145.6	155.7	169.1	184.5	201.4
Operating Grants from Provincial Sources										
- Grants	313,930	301,299	366,773	392,300	446,220	515,791	591,371	640,093	677,278	710,511
- Constant Dollars	313,930	289,989	335,873	329,941	336,770	354,252	379,814	378,529	367,088	352,786
Fee Income										
- Income	65,413	68,699	85,545	92,366	97,688	108,224	109,086	124,305	124,581	133,955
- Constant Dollars	65,413	66,120	78,338	77,684	73,727	74,330	70,062	73,510	67,524	66,512
"Other" Operating Revenue										
- Revenue	14,421	12,093	15,761	19,624	26,440	28,314	31,799	29,849	37,234	39,103
- Constant Dollars	14,421	11,639	14,433	16,505	19,955	19,446	20,423	17,652	20,181	19,416
Total Operating Revenue										
- Revenue	393,764	382,091	468,089	504,290	570,348	652,329	732,256	794,247	839,093	883,569
- Constant Dollars	393,764	367,749	428,653	424,130	430,451	448,028	470,299	469,691	454,793	438,714
Library Acquisition Expenses										
- Expenses	11,557	10,924	12,065	12,359	13,230	13,802	14,890	16,125	17,480	19,395
- Constant Dollars	11,557	10,514	11,049	10,394	9,985	9,479	9,563	9,536	9,474	9,630
Operating Expenses for Furniture and Equipment										
- Expenses	19,050	18,253	17,842	18,308	19,587	21,121	20,403	21,879	23,759	24,351
- Constant Dollars	19,050	17,568	16,339	15,398	14,783	14,506	13,104	12,938	12,878	12,091
Sponsored Research Expenditures										
- Expenditures	62,471	53,911	69,538	75,255	85,814	96,529	101,673	123,647	141,706	159,156
- Constant Dollars	62,471	51,887	63,679	63,293	64,765	66,297	65,301	73,121	76,805	79,025

FOOTNOTES:
[1] Includes 14 universities only - Brock, Carleton, Guelph, Lakehead, Laurentian, McMaster, Ottawa, Queen's, Toronto, Trent, Waterloo, Western, Windsor and York.
[2] Ten month fiscal year.

SOURCES: 1. COFU-UO, Total Revenue and Expenses for Provincially Assisted Universities of Ontario.
2. The Consumer Price Index, 62-001 Statistics Canada.

Table 5.12 Basic Income Unit Values

BASIC INCOME UNIT VALUES

Year	UNDIFFERENTIATED		UNDER GRADUATE	GRADUATE
	$	CPI INFLATED 1967-68 B.I.U. VALUE	$	$
1967-68	1,320	1,320		
1968-69	1,450	1,373		
1969-70	1,530	1,436		
1970-71	1,650	1,484		
1971-72	1,730	1,526		
1972-73	1,765	1,600		
1973-74	1,825	1,709		
1974-75	1,955	1,907		
1975-76	2,111	2,113		
1976-77	2,307*	2,272	2,312	2,255
1977-78	2,529*	2,454	2,542	2,478
1978-79	2,664*	2,673	2,678	2,611
1979-80	2,819*	2,917	2,833	2,762
1980-81	3,043*	3,238	3,058	2,982

* Implicit values

SOURCE: Ministry of Colleges and Universities
Statistical Summaries

Table 5.13 Capital Grants Disbursed to Universities & Other Institutions
1970 - 1981
($'000)

										Tentative	Total
INSTITUTIONS	1970/71	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1970-1981
BROCK	725	3,055	5,546	2,114	-	172	24	80	567	134	166	12,582
CARLETON	7,475	4,710	4,348	4,273	157	837	416	1,114	794	478	508	25,108
GUELPH	1,225	3,810	7,577	6,637	4,267	2,781	1,222	1,182	776	278	468	30,322
LAKEHEAD	1,500	3,720	2,304	130	135	150	98	566	160	179	55	8,997
LAURENTIAN	2,400	3,450	1,130	970	354	461	98	190	175	128	207	9,563
McMASTER	9,000	6,365	3,427	2,430	1,537	606	417	611	277	391	451	25,512
OTTAWA	11,950	15,365	10,358	4,985	989	931	1,431	4,056	2,957	531	516	54,069
QUEEN'S	10,650	4,610	4,407	1,327	533	2,186	252	881	2,097	418	339	27,701
TORONTO-ST. GEORGE	10,300	12,890	8,950	7,690	2,284	3,537	3,816	5,169	3,167	5,129	4,956	67,689
-SCARBOROUGH	575	1,835	3,355	750	273	206	144	120	93	1	81	7,432
-ERINDALE	5,925	2,485	5,475	2,370	45	130	71	-	40	155	-	16,699
TRENT	1,050	1,065	2,008	1,744	-	167	482	250	25	318	249	7,358
WATERLOO	6,875	11,965	6,162	468	380	352	426	865	310	665	412	28,880
WESTERN	9,935	19,275	7,930	968	886	614	593	662	308	265	259	41,695
WILFRID LAURIER	-	-	-	-	-	164	86	294	1,700	1,800	100	4,144
WINDSOR	8,875	6,555	1,578	760	876	575	325	314	42	575	593	21,068
YORK	16,300	7,270	8,912	3,034	1,087	1,803	761	433	160	567	585	40,912
RYERSON	7,000	6,314	5,695	5,504	3,490	494	343	851	308	702	2,290	32,991
OCA	-	-	-	-	105	70	185	612	1,291	786	1,265	4,514
TOTAL	**111,760**	**114,739**	**89,162**	**46,254**	**17,398**	**16,236**	**11,190**	**18,250**	**15,247**	**13,500**	**13,500**	**467,236**

Table 5.13.1 Health Sciences Capital Grants 1970-81
(Excluding Teaching Hospitals[1])
($'000)

INSTITUTIONS	1970/71	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	Tentative 1980/81	TOTAL
GUELPH	50[2]	-	-	-	-	-	-	-	-	-	-	50
McMASTER	26,200	26,630	7,320	3,381	195	483	132	299	557	153	107	59,457
OTTAWA	163	67	250	475	356	60	-	565	-	2,330	4,614	8,900
QUEEN'S	1,125	231	344	296	764	1,844	4,506	5,281	1,412	87	89	15,978
TORONTO	450	15	6	81	163	150	513	1,547	107	573	250	3,866
WATERLOO	-	265	1,480	2,405	197	-	-	-	-	-	-	4,347
WESTERN	57	100	150	1,150	2,500	1,305	178	1	-	95	111	5,648
RYERSON	-	-	-	-	-	80	-	-	-	-	-	80
TOTAL	**28,045**	**21,308**	**9,550**	**7,788**	**4,175**	**3,922**	**5,330**	**7,693**	**2,076**	**3,258**	**5,181**	**98,326**

FOOTNOTES: 1. Excludes capital grants to teaching hospitals except at McMaster University. The McMaster Medical Complex is approx. 39% University, 61% is teaching hospital.

2. A grant for feasibility study for a Biomedical Research Institute.

ONTARIO GOVERNMENT FISCAL POLICY
AS REFLECTED IN SOME EXCERPTS FROM
"ONTARIO BUDGET 1980"

BUDGET STATEMENT

Page 1

"Last year I also stressed the need for government to ensure that it does not add to inflationary pressures. Programs to improve public services and to stimulate the economy must be undertaken within a framework of responsible fiscal management so that government limits its claim on the resources of the economy."

Page 18

"On that occasion, (April 1979) I referred to the obligation we all have as governments to contain the tax burden, to contain the tax burden, to streamline and restrain our spending, and to accept full responsibility for any tax increases we consider necessary."

Page 20-21

"Turning to the 1980 fiscal year, I would like to deal with expenditures. For the past 5 years, the Ontario Government has led the way in Canada in improving efficiency in the delivery of public services. In 1975-76, Provincial spending accounted for 17.2 percent of the Gross Provincial Product in Ontario. This year I estimate that this figure will be 15.5 percent. That 1.7 percentage point reduction translates into $1.9 billion in the hands of the private sector. These are resources which might otherwise have been in the grip of government had we not had the gumption to implement the restraint program and stick with it.

Despite the success of our efforts, one thing which this Government cannot control is the dogged persistence of external inflationary pressures which continue to have a capricious effect on our economy. It has become apparent that, while we have made great strides in improving the efficiency of program delivery, some Provincial programs must receive additional funds if they are to cope with inflation. While we remain unshaken in our determination to strive for even more efficiency in government, we recognize the need to accommodate these inflationary pressures by easing funding levels somewhat. There is no way that we will allow the high quality of public services in Ontario to deteriorate.

Page 22

"Turning now to the overall fiscal strategy, this year I am projecting total revenues of $16,172 million, an increase of $976 million over 1979. This includes provision for negotiations with Ontario Hydro to settle the Pickering Nuclear Agreement and an additional $10 million from Provincial fees and licences to recognize higher costs. I am projecting expenditures of $17,121 million, an increase of $1,266 million, or 8 percent. The resulting net cash requirements will be $949 million. This is somewhat more than last year's deficit. However, in a year of economic uncertainty I believe it is appropriate to allow this pause in our deficit reduction strategy."

Page 23

"Mr. Speaker, the citizens of Ontario are hard working people. The support they give every day to developing the economy of their province is reflected in both our quality of life and our sound financial position. With controlled and modest growth in spending on the development of essential services, this Government will ensure that maximum resources are left in the economy and that we do not contribute to inflation. Stability in our major tax rates is an essential part of the Government's fiscal strategy. The dividend flowing from the sound fiscal management of the Government of William G. Davis is that I can announce that there will be no tax increases in 1980-81."

BUDGET PAPER C

Page 3

"The Province of Ontario has the financial strength and flexibility necessary to meet the challenges of the 1980s. These challenges involve improving on the province's traditionally high standards of economic performance, delivering high quality and efficient public services and combating inflation. The ability to successfully achieve these priorities has been substantially augmented by the improved fiscal position achieved by Ontario through its restraint program.

Page 6

"Previous budget papers have documented in detail the management aspects of Ontario's expenditure restraint program.[2] The central purpose of this program is to reduce the burden of government on the economy, thereby freeing resources for more productive use in the private sector. Restraint also leads to greater efficiences in public programs as administrators must find more innovative and cost effective methods of delivering public services. In addition, restraint increases the flexibility of government to undertake new tax or expenditure measures to promote economic growth and deal with social issues.

Since 1975, Ontario has held its expenditure growth rate below the rate of expansion of the provincial economy, as shown in Table 4. During the past four years, the average annual rate of growth in spending of 8.3 percent has been 2.1 percentage points below the growth rate in the economy. Consequently, total Provincial spending measured as a percentage of Gross Provincial Product (GPP) has been reduced from 17.2 percent in 1975-76 to an estimated 15.5 percent in 1980-81."

Page 7

"It is interesting also to contrast the restraint record of Ontario with that of the federal government. In financial control and public service employment, Ontario has consistently outperformed Ottawa. Table 6 shows that, in 1979-80, federal cash requirements as a proportion of spending stood at 18.7 percent, compared to 4.2 percent for Ontario.

The federal public service grew by 22,229 persons, an increase of 7.3 percent, between September 1975 and March 1980. During approximately the same period, Ontario's public service was reduced by 4,180 persons, a drop of almost 5 percent, as documented in Table 7."

Page 9

"In 1977, the Province of Ontario pioneered in Canada the concept of publishing medium term budget projections. A five-year plan was established for achieving a balanced budget by 1981. This time frame was extended because revenue growth did not keep pace with the original projections.[3] The Government, however, has come very close to meeting the expenditure targets set out in the plan.

In recognition of these changed circumstances, the Province last year introduced a new approach to medium term fiscal planning. The proposed objective was to maintain a certain differential between revenue and expenditure growth rates, with expenditure growing more slowly than revenue. Projections at that time indicated that the budget could be balanced by 1983-84 if the differential was held in the range of 2.5 percent per year on average.[4] In fact, the Province exceeded this projection in the fiscal year just ended - the differential between spending and revenue growth rates was 4.8 percentage points.

While the Province was able to improve substantially its financial position in the previous year, in 1980-81 it is deliberately allowing a pause in the movement to a balanced budget capacity by permitting the planned deficit to increase. This decision recognizes current economic realities and social needs.

First, as a deliberate policy under the restraint program, a large number of Provincially financed institutions have been funded over a period of years at rates somewhat below the growth in inflation. They have responded constructively by introducing needed efficiencies in the delivery of services. Nevertheless, in some areas, basic services could suffer unless funding is forthcoming at moderately higher levels. Therefore, while most programs will still grow more slowly than the rate of inflation, some easing in funding will be permitted.

Page 10-11

"Taking the two fiscal years togeather, the Province has improved the deficit projection it set out in 1979 by $345 million despite the accounting change required by the pensioner grant program. It is realistic, therefore, to continue with this projection of cash requirements which would involve the re-establishment of a differential between revenues and expenditures of 2.5 percent in 1981-82. The realization of this projection would require fairly strong economic growth along with a reduction in inflationary pressures. Current uncertainty about the future growth path of the United Stated economy makes it difficult to have confidence in the accuracy of any medium term fiscal projection. Nevertheless, for the time being, the province will hold to its 1979 projection. As stability returns to the United States economy, these projections will be reassessed."

Page 14-15

"The previous section outlined how Ontario could achieve a balanced budget capacity within four years, with continued economies in spending and reasonable growth in revenues. This would eliminate any need for net new long term borrowing. Even if economic conditions required that the pause strategy be extended, however, there would still be a surplus of non-public funds available to the Province over the next three years. As noted in an earlier section of this paper which deals with capital investments, the Government has ensured that the capital funds have been directed to creating assets which have lasting social and economic value. This continues to be a prime objective of the Government. Any move to divert capital funds to finance ongoing programs of government simply postpones the need for tax increases. Accordingly, the Government has developed a strategy which will ensure that non-public borrowing proceeds are utilized in a way which will provide long term benefits to the Ontario economy and provide sound income producing assets for pension funds."

Table 6.1 Ontario Government Expenditure in Selected Areas
As Percentages of Total Budgetary Expenditures
1970-71 to 1980-81

	1970-71		1971-72		1972-73		1973-74		1974-75		1975-76		1976-77		1977-78		1978-79		1979-80		1980-81	
	$M	%	$M	%	$M	%	$M	%	$M	%	$M	%	$M	%	$M	%	$M	%	$M	%	$M	%
General Government	463	11.0	746	15.4	412	6.9	547	8.2	828	10.2	1119	11.5	1100	10.1	1041	8.8	1143	9.0	1534	11.0	1584	10.5
% of 1980-81	29.2		47.1		26.0		34.5		52.3		70.6		69.4		65.7		72.2		96.8		100	
Justice Policy	175	4.2	207	4.3	241	4.0	274	4.1	329	4.0	395	4.0	428	4.0	463	3.9	501	3.9	548	3.9	576	3.8
% of 1980-81	30.4		35.9		41.8		47.6		57.1		68.6		74.3		80.4		87.0		95.1		100	
Resource Development	786	18.7	707	14.6	903	15.0	1033	15.4	1221	15.0	1478	15.1	1652	15.2	1822	15.3	1885	14.9	2032	14.6	2268	15.0
% of 1980-81	34.7		31.2		39.8		45.5		53.8		65.2		72.8		80.3		83.1		89.6		100	
Social Development	2780	66.1	3182	65.7	447	74.1	4845	72.3	5756	70.8	6773	69.4	7672	70.7	8561	72.0	9154	72.2	9824	70.5	10506	69.6
% of 1980-81	26.5		30.3		42.3		46.1		54.8		64.5		73.0		81.5		87.1		93.5		100	
Contingency																					161	1.1
Total Govt. Expd.	4204	100.0	4842	100.0	6003	100.0	6699	100.0	8134	100.0	9765	100.0	10852	100.0	11887	100.0	12683	100.0	13938	100.0	15095	100.0
% of 1980-81	27.8		32.1		39.8		44.4		53.9		64.7		71.9		78.7		84.0		92.3		100	
Oper. Grants to Universities	332	7.9	316	6.5	397	6.6	424	6.3	486	6.0	565	5.8	649	6.0	704	5.9	744	5.9	782	5.6	839	5.6
% of 1980-81	39.6		37.7		47.3		50.5		57.9		67.3		77.4		83.9		88.7		93.2		100	
Oper. Grants to Colleges	69	1.6	90	1.9	107	1.8	130	1.9	171	2.1	205	2.1	236	2.2	257	2.2	271	2.1	293	2.1	318	2.1
% of 1980-81	21.7		28.3		33.6		40.9		53.8		64.5		74.2		80.8		85.2		92.1		100	
Gen. Grants to Schools	824	19.6	1011	20.9	1167	19.4	1245	18.6	1331	16.4	1575	16.1	1693	15.6	1870	15.7	1969	15.5	2121	15.2	2150	14.2
% of 1980-81	38.3		47.0		54.3		57.9		61.9		73.3		78.7		87.0		91.6		98.6		100	
Health Insurance	438	10.4	482	10.0	540	9.0	560	8.4	650	8.0	742	7.6	800	7.4	898	7.6	1023	8.1	1122	8.0	1286	8.5
% of 1980-81	34.1		37.5		42.0		43.5		50.5		57.7		62.2		69.8		79.5		87.2		100	
Oper. Grants to Hospitals					1014	16.9	1065	15.9	1373	16.9	1601	16.4	1881	17.3	1989	16.7	2054	16.2	2161	15.5	2383	15.8
% of 1980-81	na	na	na	na	42.6		44.7		57.6		67.2		78.9		83.5		86.2		90.7		100	

NOTE: na = not available

SOURCE: Ontario Budget 1980 and Ontario Public Accounts 1970-71 to 1979-80 inclusive.

SOCIO-ECONOMIC DATA

Recent studies, both in Ontario and in other jurisdictions, show that university students are disproportionately drawn from the middle to upper classes. Despite measures to increase accessibility at the point of university entrace (eg., financial aid programs), the socio-economic mix of university students has not changed. This is due to the fact that the most significant factors which ultimately determine whether an individual pursues post-secondary education operate at a much earlier stage.

Table 7.3 shows the correlation of high school program with gender, socio-economic status (SES), and urban-rural origins (Stratum). Table 7.4 presents grades and further educational achievement by high school program. For the majority, university access depends on entrance to and completion of a 5-year academic program in high school. The student most likely to enter the academic program, complete Grade 13 and graduate from university comes from an urban family of high socio-economic status.

Table 7.5 shows the range of educational attainments of a sample of students who were in Grade 12 six years earlier. CAAT students are generally representative of all SES groups. However, over 45% of those who graduated from university, and nearly 60% of those enrolled in graduate or professional schools are from the highest SES group.

Educational attainment is also related to urban-rural origins. Students attending university are much more likely to be from an urban area, whereas CAAT students are more likely to be rural.

Table 7.6 correlates enrolment in different post-secondary programs with father's educational attainment. Fathers of graduate students have the highest level of educational attainment, and fathers of students in terminal community college courses have the lowest.

The COU discussion paper, Equality of Access to Ontario Universities, examines the recent literature with respect to accessibility to universities. The author of the COU report concludes that there is a shortage of reliable data on the numbers of people who are prevented from attending university simply because they cannot afford it. However, the experience in Sweden shows that free tuition does not necessarily increase the enrolment of low-income students. University students in Sweden are drawn even more heavily from the higher SES groups than in Canada.

Table 7.1 illustrates university enrolments by sex, from 1974 to 1979. At all levels, the proportion of the student body represented by females has increased dramatically over the period, while that of males has decreased. Overall, the percentage of women has increased from 43.8% to 48.4%. At the undergraduate level, females have increased from 41.6% of the total to 44.8% (full-time) and from 56.8% to 61.1% (part-time). The corresponding figures at the graduate level are 27.8% to 36.6% (full-time) and 24.6% to 36.6% (part-time).

Table 7.2 illustrates the enrolment of students by mother tongue. The pattern of enrolment has remained virtually unchanged from 1977 to 1979 (1976 has been ignored due to the large percentage not reported). Approximately 80% of all students indicate English as their mother tongue, while approximately 5% indicate French.

Table 7.1 Enrolment (Headcount) By Sex At Ontario Universities Fall, 1972-1979

	FALL 1972	%	FALL 1973	%	FALL 1974	%	FALL 1975	%	FALL 1976	%	FALL 1977	%	FALL 1978	%	FALL 1979	%
1. FULL-TIME UNDERGRADUATE																
MALE	66,866	61.5	68,941	60.4	71,198	58.4	73,917	57.2	75,483	56.0	73,604	56.6	71,119	55.3	71,349	55.2
FEMALE	41,807	38.5	45,244	39.6	50,745	41.6	55,234	42.8	59,358	44.0	58,712	44.4	57,457	44.7	57,845	44.8
TOTAL	**108,673**	**100.0**	**114,185**	**100.0**	**121,943**	**100.0**	**129,151**	**100.0**	**134,841**	**100.0**	**132,316**	**100.0**	**128,576**	**100.0**	**129,194**	**100.0**
2. PART-TIME UNDERGRADUATE																
MALE	23,054	48.0	23,425	45.1	24,080	43.2	25,402	42.2	23,253	39.8	22,954	39.6	22,883	39.4	24,269	38.9
FEMALE	24,971	52.0	28,469	54.9	31,706	56.8	34,487	57.6	35,170	60.2	34,983	60.4	35,223	60.6	38,159	61.1
TOTAL	**48,025**	**100.0**	**51,894**	**100.0**	**55,786**	**100.0**	**59,889**	**100.0**	**58,423**	**100.0**	**57,937**	**100.0**	**58,106**	**100.0**	**62,428**	**100.0**
3. FULL-TIME GRADUATE																
MALE	12,289	76.3	12,042	74.0	11,917	72.2	12,485	70.7	11,889	69.3	10,520	67.2	10,133	65.7	9,475	63.4
FEMALE	3,810	23.7	4,238	26.0	4,599	27.8	5,165	29.3	5,262	30.7	5,141	32.8	5,284	34.3	5,477	36.6
TOTAL	**16,099**	**100.0**	**16,280**	**100.0**	**16,516**	**100.0**	**17,650**	**100.0**	**17,151**	**100.0**	**15,661**	**100.0**	**15,417**	**100.0**	**14,952**	**100.0**
4. PART-TIME GRADUATE																
MALE	7,147	78.8	7,742	77.4	8,092	75.4	8,726	73.6	8,575	69.6	8,214	66.6	7,857	64.8	7,715	64.0
FEMALE	1,926	21.2	2,263	22.6	2,641	24.6	3,132	26.4	3,746	30.4	4,120	33.4	4,270	35.2	4,335	36.0
TOTAL	**9,073**	**100.0**	**10,005**	**100.0**	**10,733**	**100.0**	**11,858**	**100.0**	**12,321**	**100.0**	**12,334**	**100.0**	**12,127**	**100.0**	**12,050**	**100.0**
5. ALL STUDENTS																
MALE	109,356	60.1	112,150	58.3	115,287	56.2	120,530	55.2	119,200	53.5	115,292	52.8	111,992	52.3	112,808	51.6
FEMALE	72,514	39.9	80,214	41.7	89,691	43.8	98,018	48.4	103,536	46.5	102,956	47.2	102,234	47.7	105,816	48.4
TOTAL	**181,870**	**100.0**	**192,364**	**100.0**	**204,978**	**100.0**	**218,548**	**100.0**	**222,736**	**100.0**	**218,248**	**100.0**	**214,226**	**100.0**	**218,624**	**100.0**

NOTES:
a. Excludes Ryerson and OCA.
b. Includes students in undergraduate level non-university type courses at all institutions from Fall 1976 onwards.
c. Percentages may not total exactly due to rounding.
d. Interns and Residents were not reported consistently prior to 1977. They are included with undergraduate or graduate depending on the institution or, in some early years, excluded altogether (1974 and prior, for some institutions only).
e. Part-time prior to 1974 excludes Queen's who did not report on the computerized file.
f. Ottawa excludes affiliates St. Paul and St. Augustine prior to 1977.
g. Adjustments for inclusions/exclusions cannot be made for tables showing demographic or other personal characteristics, which must be compiled from the computer files of individual student records. Detailed notes for each year indicating inclusions/exclusions are appended to the enrolment by institution tables, where all adjustments possible were made. For this reason total enrolments shown on these tables differ slightly from the institution tables.

SOURCE: USIS 11010001 (unrounded)

Table 7.2 Enrolment (Headcount) By Mother Tongue, 1976-77 To 1979-80

		Mother Tongue				
		English	French	Other	Not Reported	Total
1976	Full-time Undergraduate	100789	6304	14572	22134	143799
	Part-time Undergraduate	45057	4049	4564	6321	59991
	Full-time Graduate	10823	711	2914	2720	17168
	Part-time Graduate	8506	1024	1150	1639	12319
1977	Full-time Undergraduate	111335	6434	15913	9027	142709
	Part-time Undergraduate	53463	4475	5415	3510	66863
	Full-time Graduate	10839	702	2562	1563	15666
	Part-time Graduate	8958	979	1240	1165	12342
1978	Full-time Undergraduate	111247	6396	16425	4912	138980
	Part-time Undergraduate	56497	4345	6153	1209	68204
	Full-time Graduate	11365	735	2576	749	15425
	Part-time Graduate	9379	973	1254	531	12137
1979	Full-time Undergraduate	112773	6794	16862	3242	139671
	Part-time Undergraduate	61264	4577	6215	1047	73103
	Full-time Graduate	11165	795	2721	279	14960
	Part-time Graduate	9549	883	1493	144	12069

FTE REGISTRATION IN FRENCH COURSES OFFERED AT BILINGUAL UNIVERSITIES, 1976-77 TO 1979-80

	1976	1977	1978	1979
Undergraduate FTE's	6176	6304	6830	6818
Graduate FTE's	1604	1341	1538	1580
Total French FTE's	7780	7645	8368	8398
Total System FTE's	195876	189930	185529	186720
French FTE's as % of Total	4.0	4.0	4.5	4.5

SOURCE: USIS and institutional bilingual submissions

Table 7.3 Type Of High School Program By Selected Social Background Factors

	Social Background Factors									
	Sex		SES				Stratum			
	M ($)	F ($)	Low ($)	2 ($)	3 ($)	High ($)	Urban ($)	2 ($)	3 ($)	Rural ($)
Academic	63.4	74.4	49.7	62.6	74.1	90.6	84.1	72.2	70.8	55.5
Commercial	5.9	24.2	27.1	17.7	13.0	3.9	10.8	14.4	13.7	20.8
Technical/ Vocational	30.7	1.3	23.2	19.8	12.9	5.4	5.2	13.4	15.5	23.7
TOTAL (N)	720	786	374	347	330	383	338	330	354	485
Significance (p)										

NOTE: Socio-Economic Status (SES) is measured by a combination of family income, parental occupation and educational attainment.

SOURCE: Anisef et al, Is the Die Cast? (1980), p. 72, Table 3-1.

Table 7.4 Educational Outcomes By Type Of High School Program

Educational Outcomes	Academic (%)	Commercial (%)	Technical/Vocational (%)
Grades			
(70%) or higher	52.1	33.8	23.3
Lower than 70%	47.9	66.2	76.7
TOTAL (N)	**1020**	**229**	**227**
Significance (p)			
Educational Achievement in 1979			
University graduate	41.3	4.1	7.4
CAAT graduate	19.2	15.8	21.3
Some university/some CAAT	16.2	8.7	14.1
No post-secondary	23.3	71.4	57.1
TOTAL (N)	**1042**	**233**	**231**
Significance (p)			

SOURCE: Is the Die Cast?, p. 73, Table 3-2.

Table 7.5 Recruitment Into Post-Secondary Educational Attainments From Gender Background, Socioeconomic Origins And Strata

Educational Achievement in 1979	Sex Men (%)	Women (%)	Total (N)	SES Low (%)	2 (%)	3 (%)	High (%)	Total (N)	Stratum Urban (%)	2 (%)	3 (%)	Rural (%)	Total (N)
Presently enrolled graduate or professional school	54.0	46.0	98	14.7	9.0	17.4	58.9	96	24.7	28.8	30.4	16.7	98
Graduate university	50.1	49.9	310	14.3	19.8	19.3	46.6	305	30.8	23.8	24.5	20.9	310
Attended university but did not graduate	59.2	40.8	91	18.9	16.7	26.2	38.2	83	34.5	20.8	27.7	17.0	91
Graduated from CAAT	36.2	63.8	251	27.5	30.2	21.6	20.7	234	16.4	19.0	24.1	40.4	251
Attended CAAT but did not graduate	55.3	44.7	91	30.0	22.3	27.6	20.1	87	22.2	20.3	22.6	34.9	91
University graduate and some CAAT experience	57.0	43.0	21	6.1	21.1	26.1	46.7	19	33.2	19.7	36.9	10.2	21
University graduate and graduate from CAAT	22.2	77.8	30	15.2	26.8	25.5	32.5	26	32.6	15.9	30.1	21.4	30
Graduated from CAAT and some university experience	44.3	55.7	38	22.5	17.1	43.6	16.8	38	26.1	36.0	9.2	28.8	38
Some university and some some CAAT experience	49.2	50.8	41	17.2	18.3	17.0	47.5	39	27.9	28.3	25.4	18.4	41
No post-secondary	48.6	51.4	550	37.5	29.1	24.0	9.4	524	16.3	20.1	21.2	42.3	550

SOURCE: Is the Die Cast?, p. 133, Table 4-3.

Table 7.6 Educational Attainment of Fathers of Full-Time Post-Secondary Students, 1974-75

Fathers' Educational Attainment	Full-Time Students					
	Transfer	Terminal	Undergraduate	Professional	Graduate	Total
Elementary	23.9	31.9	19.8	21.9	15.9	23.4
Some High School	21.7	29.0	23.8	20.9	19.4	24.4
Completed High School	14.9	14.4	15.1	14.6	14.3	14.8
Sub-total Secondary	**36.6**	**43.5**	**38.9**	**35.5**	**33.7**	**39.3**
Total Elementary and Secondary	**60.5**	**75.4**	**58.7**	**57.3**	**49.6**	**62.6**
Post-secondary Non-universities	15.3	13.0	12.5	11.2	11.2	13.0
Some University	7.0	3.9	7.1	7.2	8.3	6.3
University Degree(s)	17.2	7.6	21.7	24.2	30.9	18.0
Sub-total University	**24.2**	**11.5**	**28.8**	**31.5**	**39.2**	**24.4**
Total Post-secondary	**39.5**	**24.6**	**41.3**	**42.7**	**50.4**	**37.3**
Grand Total	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Number Reported	59,437	93,195	189,275	23,401	14,132	379,440

SOURCE: von Zur-Muehlen, The Educational Background of Parents of Post-Secondary Students in Canada (1978), p. 24.

RESEARCH AND DEVELOPMENT

Basic information of the funding and performing of Research and Development in Canada is provided in this section.

In 1979 Canadian universities performed $630.5 million worth of R & D in the Natural Sciences, 26.4% of the total performed in the country. This proportion has increased from 18.6% in 1963 and 25.3% in 1973. Of these $630.5 million, $256.1M came from the various governments for sponsored research (40.6%) and a mere $1.6M came from the business sector (0.25%).

37.9% of the federal government expenditures on scientific activity in universities were spent in Ontario ($88.2M). Ontario universities received $75.4M from the federal government for the Natural Sciences and $12.7M for the Social Sciences.

Universities in Ontario received $20.5M for R & D in Natural Sciences in 1978-79 from the Ontario government (in addition to the operating grants). This represented a 90% increase over the 1973-74 grants. Similarly in the Social Sciences, universities received R & D grants of $11.1M, a 180% increase over the 1973-74 grants.

According to projections included in the five year plan of the Natural Sciences and Engineering Research Council, the university research force in Natural Sciences and Engineering will decline from 8991 professors and 5155 researchers in 1976-77 to a low of 7635 professors and 3056 researchers in 1996-97 before starting to increase again.

Table 8.1 Performers of R & D in Canada, 1963-1979

	Governments				Business enterprises	Universities	Private non-Profit	Total
Year	Federal	Provincial	Provincial research organizations	Total				
	millions of dollars							
1963	175.0	13.1	3.7	191.8	180.4	86.0	4.3	462.5
1964	195.1	14.2	4.0	213.3	227.0	108.9	4.6	553.8
1965	221.4	15.3	5.7	242.4	287.4	129.8	5.0	664.6
1966	240.7	16.5	7.4	264.6	317.1	167.2	5.4	754.3
1967	281.5	17.8	7.7	307.0	335.5	206.0	6.0	854.5
1968	304.0	19.3	8.4	331.7	342.1	229.8	6.5	910.0
1969	304.8	20.8	9.6	335.2	393.8	266.3	7.0	1,002.3
1970	317.1	22.5	8.0	347.6	413.0	293.0	7.7	1,061.3
1971	341.3	24.3	9.2	374.8	464.5	309.5	8.3	1,157.1
1972	363.8	26.2	11.4	401.4	459.3	309.4	9.0	1,179.1
1973	395.0	28.3	14.1	437.4	500.1	321.4	9.8	1,268.7
1974	440.0	36.6	16.3	492.9	596.8	369.1	10.7	1,469.5
1975	466.9	34.6	19.4	520.9	692.1	431.6	11.6	1,656.2
1976	495.0	38.7	23.0	556.7	734.8	476.0	12.6	1,780.1
1977	541.8	43.8	23.2	608.8	837.0	534.2	15.7	1,995.7
1978	604.0	47.9	26.9	678.8	980.1	583.8	19.0	2,261.7
1979	626.6	51.7	34.7	713.0	1,024.6	630.5	20.8	2,388.9

Funders Of R & D In Canada, 1963-1979

	Governments			Business Enterprises	Universities	Private Non-Profit	Foreign	Total
Year	Federal	Provincial & provincial research organizations	Total					
	millions of dollars							
1963	225.3	19.4	244.7	145.4	57.2	5.7	9.5	462.5
1964	262.3	24.6	286.9	175.9	69.2	6.1	15.7	553.8
1965	313.2	28.8	342.0	211.1	76.6	7.3	27.6	664.6
1966	345.9	35.2	381.1	245.8	95.5	8.0	23.9	754.3
1967	408.0	47.5	455.5	273.2	98.8	8.7	18.3	854.5
1968	452.3	55.2	507.5	280.8	94.9	10.3	16.6	910.1
1969	474.8	58.7	533.5	325.0	116.9	10.4	16.5	1,002.3
1970	496.8	58.1	554.9	333.2	141.3	12.1	19.8	1,061.3
1971	539.8	53.4	593.2	365.6	153.4	17.7	27.2	1,157.1
1972	561.2	64.2	625.4	360.3	145.7	18.4	29.3	1,179.1
1973	607.3	71.9	679.2	389.9	146.4	19.2	34.0	1,268.7
1974	660.8	82.5	743.3	483.1	183.2	24.6	35.3	1,469.5
1975	697.2	87.8	785.0	567.7	235.1	24.2	44.2	1,656.2
1976	737.4	109.9	847.3	594.8	260.8	29.8	47.4	1,780.1
1977	816.3	129.1	945.4	675.1	284.9	33.8	56.5	1,995.7
1978	923.5	150.7	1,074.2	783.0	305.1	38.0	61.3	2,261.7
1979	967.8	170.1	1,137.9	809.4	333.5	41.8	66.3	2,388.9

SOURCE: Statistics Canada, Annual Survey of Science Statistics 13212, 1979

Table 8.2 Sources of Funds for University R & D in the Natural Sciences, 1963-64 to 1979-80.

	Governments			Business enterprises	Universities	Private non-profit	Foreign	Total
Year	Federal	Provincial	Total					
	millions of dollars							
1963-64	20.7	1.2	21.9	0.4	57.2	4.4	2.1	86.0
1964-65	27.8	4.8	32.6	0.4	69.2	4.7	2.0	108.9
1965-66	39.1	6.4	45.5	0.4	76.6	5.8	1.5	129.8
1966-67	53.3	10.2	63.5	0.4	95.5	6.3	1.5	167.2
1967-68	78.2	20.5	98.7	0.4	98.8	6.8	1.3	206.0
1968-69	98.9	26.0	124.9	0.5	94.9	8.4	1.1	229.8
1969-70	113.1	26.7	139.8	0.5	116.9	8.3	0.8	266.3
1970-71	115.9	24.8	140.7	0.6	141.3	9.8	0.6	293.0
1971-72	122.1	17.1	139.2	1.0	153.4	15.2	0.7	309.5
1972-73	122.2	23.3	145.5	1.1	145.7	15.7	1.4	309.4
1973-74	127.8	28.6	156.4	1.0	146.4	16.2	1.4	321.4
1974-75	132.6	28.4	161.0	1.4	183.2	21.4	2.1	369.1
1975-76	139.6	30.9	170.5	1.4	234.1	21.8	3.8	431.6
1976-77	148.5	37.2	185.7	1.5	260.8	26.0	2.0	476.0
1977-78	171.1	42.8	213.9	1.6	284.9	28.0	5.8	534.2
1978-79	191.9	48.9	240.8	1.6	305.1	30.1	6.2	583.8
1979-80	202.4	53.7	256.1	1.6	333.5	33.1	6.2	630.5

Sources of Funds for University R & D in the Social Sciences, 1963-64 to 1979-80

	Governments			Business Enterprises	Universities	Private Non-Profit	Foreign	Total
Year	Federal	Provincial	Total					
	millions of dollars							
1963-64	1.7	0.5	2.2	-	25.8	0.1	-	28.1
1964-65	2.2	2.3	4.5	-	32.9	0.1	-	37.5
1965-66	3.1	3.0	6.1	0.1	40.1	0.1	-	46.4
1966-67	4.3	3.8	8.1	0.1	52.6	0.1	-	60.9
1967-68	6.3	4.9	11.2	0.1	64.4	0.1	-	75.8
1968-69	7.9	6.3	14.2	0.1	70.6	0.1	-	85.0
1969-70	9.0	7.6	16.6	0.1	83.5	0.1	-	100.3
1970-71	9.8	7.4	17.2	0.1	98.0	0.1	-	115.4
1971-72	11 5	4.6	16.1	0.1	106.7	0.2	-	123.1
1972-73	12.7	6.2	18.9	0.1	101.9	0.2	-	121.1
1973-74	15.0	8.6	23.6	0.1	99.6	0.3	-	123.6
1974-75	18.0	10.3	28.3	0.2	113.5	0.4	-	142.4
1975-76	19.6	13.4	33.0	0.2	132.9	0.4	-	166.5
1976-77	21.4	15.9	37.3	0.2	143.6	0.4	-	181.5
1977-78	21.6	18.3	39.9	0.2	166.0	0.6	-	206.7
1978-79	27.1	20.9	48.0	0.2	177.0	0.7	-	225.9
1979-80	29.9	23.0	52.9	0.2	190.1	0.8	-	244.0

SOURCE: Statistics Canada, Annual Survey of Science Statistics 13212, 1979

Table 8.2.1 Sources of Funds for University R & D in the Health Sciences, 1963-64 to 1979-80

	Governments			Business enterprises	Universities	Private non-profit	Foreign	Total
Year	Federal	Provincial	Total					
	millions of dollars							
1963-64	6.3	0.4	6.7	0.2	3.7	4.2	2.1	16.9
1964-65	7.9	1.6	9.5	0.2	8.1	4.5	2.0	24.3
1965-66	12.3	2.2	14.5	0.2	10.0	5.6	1.5	31.8
1966-77	14.5	4.9	19.4	0.2	20.1	6.1	1.5	47.3
1967-68	28.0	13.6	41.6	0.2	14.6	6.5	1.3	64.2
1968-69	38.3	17.1	55.4	0.2	10.6	8.1	1.1	75.4
1969-70	38.8	15.9	54.7	0.2	22.8	8.0	0.8	86.5
1970-71	39.6	14.5	54.1	0.3	36.0	9.4	0.6	100.4
1971-72	43.1	10.7	53.8	0.4	40.2	14.6	0.7	109.7
1972-73	46.1	14.6	60.7	0.5	30.5	15.1	1.4	108.2
1973-74	49.9	16.5	66.4	0.4	32.0	15.6	1.4	115.8
1974-75	48.8	13.8	62.6	0.6	49.9	20.6	2.1	135.8
1975-76	48.8	12.1	60.9	0.6	76.3	20.0	3.8	161.6
1976-77	53.4	14.9	68.3	0.7	84.7	25.0	2.0	180.7
1977-78	63.0	15.3	78.3	0.7	93.6	27.5	5.8	205.9
1978-79	68.1	17.5	85.6	0.7	102.4	30.1	6.2	225.0
1979-80	68.6	19.2	87.8	0.7	115.2	33.1	6.2	243.0

SOURCE: Statistics Canada, Annual Survey of Science Statistics 13212, 1979

Table 8.3 Federal Government Extramural Expenditures on Scientific Activities, by Sector of Performance and Region, 1978-79

Region	Industry	Universities	Non-profit institutions	Provincial and municipal governments	Other Canadian performers	Total
	per cent					
Atlantic provinces	7.4	7.0	5.6	19.3	19.2	8.1
Quebec	23.8	24.2	37.0	6.9	10.2	23.3
Ontario	56.4	37.9	38.5	12.7	40.1	44.3
Manitoba	0.9	5.0	3.3	9.1	3.0	3.4
Saskatchewan	1.4	2.9	0.4	6.9	7.2	2.5
Alberta	4.2	8.5	1.9	38.5	6.0	7.9
British Columbia, Yukon and Northwest Territories	5.9	14.5	13.3	6.6	14.3	10.5
	millions of dollars					
Total	**215.9**	**232.7**	**27.1**	**27.5**	**16.7**	**519.9**

Federal Government Extramural Expenditures on Scientific Activities, by Field of Science, by Sector of Performance and Region, 1978-79

Region	Industry	Universities	Non-profit institutions	Provincial and municipal governments	Other Canadian performers	Total
	per cent					
Natural sciences						
Atlantic provinces	7.6	6.9	6.3	12.0	24.8	7.8
Quebec	24.3	23.7	39.6	2.2	7.4	23.1
Ontario	55.8	37.4	26.0	13.0	33.0	44.5
Manitoba	0.9	5.0	6.3	2.2	4.6	3.0
Saskatchewan	1.5	3.0	-	7.0	6.4	2.5
Alberta	3.8	8.8	1.0	56.5	5.5	8.2
British Columbia, Yukon and Northwest Territories	6.1	15.2	20.8	7.1	18.3	10.9
	millions of dollars					
Total	**205.2**	**201.6**	**9.6**	**18.4**	**10.9**	**445.6**
Social sciences						
Atlantic provinces	2.8	8.0	5.1	34.0	8.8	9.8
Quebec	13.1	27.7	35.4	16.5	15.8	25.1
Ontario	67.3	40.8	45.1	12.1	56.1	43.3
Manitoba	0.9	5.5	1.8	22.0	1.7	5.7
Saskatchewan	--	1.9	0.6	7.7	5.3	2.3
Alberta	13.1	6.1	2.9	2.2	5.3	5.8
British Columbia, Yukon and Northwest Territories	2.8	10.0	9.1	5.5	7.0	8.0
	millions of dollars					
Total	**10.7**	**31.1**	**17.5**	**9.1**	**5.7**	**74.1**

NOTE: - nil or zero.
-- amount too small to be expressed.

SOURCE: Statistics Canada, Service Bulletin Science Statistics 13003 Vol 4 #1

Table 8.4 Federal Government Extramural Expenditures on Scientific Activities, by Sector of Performance and Region, 1976-77 to 1978-79

Sector of performance	Atlantic provinces	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia Yukon and N.W.T.	Total
	per cent							
Industry								
1976-77	28.9	52.4	62.2	16.5	16.7	32.2	29.4	50.7
1977-78	32.3	46.1	56.5	14.4	19.7	19.7	31.3	44.6
1978-79	37.8	42.3	52.8	10.9	23.9	22.1	23.5	41.5
Universities								
1976-77	60.4	42.9	31.8	57.4	50.8	51.6	65.2	41.3
1977-78	46.1	46.1	36.6	53.3	54.7	46.3	56.2	43.3
1978-79	38.5	46.5	38.3	66.9	51.5	48.3	62.1	44.8
Other								
1976-77	10.7	4.7	6.0	26.1	32.5	16.2	5.4	8.0
1977-78	21.6	7.8	6.9	32.3	25.6	34.0	12.5	12.1
1978-79	23.7	11.2	8.9	22.2	24.6	29.6	14.4	13.7
	Millions of dollars							
Total:								
1976-77	19.7	111.2	232.7	17.6	12.6	31.0	39.1	464.0
1977-78	28.2	119.1	219.2	18.0	13.7	37.6	48.0	484.0
1978-79	42.3	121.3	230.5	17.5	13.0	40.8	54.4	519.9

Federal Government Extramural Expenditures on Research and Development, by Sector of Performance and Region, 1978-79

Region	Industry	Universities	Non-profit Institutions	Provincial & Municipal Governments	Other Canadian Performers	Total
Atlantic provinces	6.9	7.1	6.4	9.5	24.2	7.3
Quebec	22.1	23.8	44.7	1.6	4.8	22.8
Ontario	58.4	37.8	31.4	6.2	46.8	45.0
Manitoba	1.0	5.0	3.7	10.0	4.8	3.5
Saskatchewan	1.6	2.9	0.5	9.0	3.2	2.5
Alberta	4.6	8.5	1.6	58.1	1.6	8.5
British Columbia, Yukon and Northwest Territories	5.4	14.9	11.7	5.6	14.6	10.4
	millions of dollars					
Total	183.0	210.3	18.9	17.7	6.3	436.2

SOURCE : Statistics Canada, Service Bulletin Science Statistics 13003 Vol 4 #1

Table 8.5 Government of Ontario
Total Expenditures in the Natural Sciences,
by Performer, 1973-74 to 1978-79

Performer	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
				($'000)		
Intramural	22,106	30,341	26,951	31,537	42,419	46,807
Industry	183	728	1,195	1,498	2,481	4,247
Universities	11,878	12,628	15,388	15,087	20,600	22,458
Hospitals and health organizations	4,867	4,841	5,007	6,953	6,585	7,708
Ontario Research Foundation	603	2,630	2,923	3,260	3,254	3,316
Other	746	1,382	1,495	1,041	576	430
TOTAL	**40,383**	**52,550**	**52,959**	**59,376**	**75,915**	**84,966**

Current Expenditures on R & D in the Natural Sciences,
by Performer, 1973-74 to 1978-79

Performer	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
				($'000)		
Intramural	10,153	12,808	13,976	15,152	18,218	19,537
Industry	127	311	931	961	780	2,091
Universities	10,778	11,473	14,088	13,659	18,917	20,474
Hospitals and health organizations	4,867	4,841	5,009	6,953	6,585	7,708
Ontario Research Foundation	603	2,630	2,923	3,260	3,236	3,216
Other	643	1,372	1,477	772	341	364
TOTAL	**27,171**	**33,435**	**38,404**	**40,757**	**48,077**	**53,390**

SOURCE: Scientific Activities of The Government of Ontario 1978-79 Survey results

Table 8.5.1 Government of Ontario
Total Expenditures in the Natural Sciences,
by Activity and Performer, 1978-79

Activity	Intramural	Industry	Universities	Hospitals & Health Organizations	Ontario Research Foundation	Other	Total
			($'000)				
Research and development:							
In-house	19,157	-	-	-	-	-	19,157
Contracts	237	1,891	13,546	-	147	99	15,920
Grants	141	200	6,928	7,708	3,069	-	18,046
Fellowships	2	-	-	-	-	265	267
Related scientific activities:							
Education support	41	-	-	-	-	-	41
Technical surveys	17,008	1,678	-	-	-	-	18,686
Information services	1,461	7	27	-	-	-	1,495
Special services and studies	2,070	471	1,957	-	100	66	4,664
Museum services	964	-	-	-	-	-	964
Capital:							
R & D	2,388	-	-	-	-	-	2,388
Related scientific activities	3,338	-	-	-	-	-	3,338
TOTAL EXPENDITURES	**46,807**	**4,247**	**22,458**	**7,708**	**3,316**	**430**	**84,966**

SOURCE : Scientific Activities of The Government of Ontario 1978-79 Survey results

Table 8.6 Government of Ontario
Total Expenditures in the Social Sciences and Humanities, by Performer, 1973-74 to 1978-79

Performer	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
			($'000)			
Intramural	15,594	19,301	37,039	37,190	47,713	46,920
Industry	2,099	1,773	2,493	2,351	2,641	3,233
Universities	6,891	6,597	8,585	11,130	14,102	17,491
Hospitals and health organizations	-	-	-	195	340	884
Ontario Research Foundation	..	..	..	..	30	20
Other	1,885	2,534	2,823	7,595	2,924	3,477
TOTAL	**26,469**	**30,205**	**50,940**	**58,461**	**67,750**	**72,025**

Current Expenditures on R & D in the Social Sciences and Humanities, by Performer, 1973-74 to 1978-79

Performer	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
			($'000)			
Intramural	2,960	4,117	4,758	5,168	8,361	8,337
Industry	231	124	402	480	438	695
Universities	3,988	3,996	5,475	6,775	9,307	11,135
Hospitals and health organizations	-	-	-	195	325	873
Ontario Research Foundation	..	..	..	..	2	-
Other	657	2,053	2,200	4,906	1,392	2,195
TOTAL	**7,836**	**10,290**	**12,835**	**17,524**	**19,825**	**23,235**

SOURCE: Scientific Activities of The Government of Ontario 1978-79 Survey results

Table 8.6.1 Government of Ontario
Total Expenditures in the Social Sciences and Humanities, by Activity and Performer, 1978-79

Activity	Intramural	Industry	Universities	Hosptials & Health Organizations	Ontario Research Foundation	Other	Total
			($000)				
Research and development:							
In-house	7,148	-	-	-	-	-	7,148
Contracts	352	626	4,707	-	-	373	6,058
Grants	835	69	6,428	873	-	1,692	9,897
Fellowships	2	-	-	-	-	130	132
Related scientific activities:							
Education support	16	-	5,285	-	-	859	6,160
Statistical surveys	3,127	113	33	-	-	205	3,478
Information services	4,988	134	56	-	-	67	5,245
Special services and studies	16,827	2,291	982	11	20	151	20,282
Museum services	12,707	-	-	-	-	-	12,707
Capital:							
R & D	557	-	-	-	-	-	557
Related scientific activities	361	-	-	-	-	-	361
TOTAL EXPENDITURES	46,920	3,233	17,491	884	20	3,477	72,025

SOURCE: Scientific Activities of The Government of Ontario 1978-79 Survey results

Table 8.7 The University Research Force in the Natural Sciences and Engineering 1976 to 2001

Age Group	Estimated Withdrawal Rate Over 5-Yr Period	Research Force Participation Rate (approx.)	1976-77 Teachers	1976-77 Researchers	1981-82 Teachers	1981-82 Researchers	1986-87 Teachers	1986-87 Researchers	1991-92 Teachers	1991-92 Researchers	1996-97 Teachers	1996-97 Researchers	2001-2 Teachers	2001-2 Researchers
	%	%	#	#	#	#	#	#	#	#	#	#	#	#
35	1	80	2,239	1,791	1,246[1]	997	0[1]	0	17[1]	14	1,174[1]	939	2,173[1]	1,738
35-39	2	60	2,211	1,327	2,217	1,330	1,234	740	0	0	17	10	1,162	697
40-44	3	55	1,672	920	2,167	1,192	2,172	1,195	1,209	665	0	0	17	9
45-49	4	50	1,259	630	1,622	811	2,102	1,051	2,107	1,054	1,173	587	0	0
50-54	5	35	836	293	1,209	423	1,557	545	2,018	706	2,023	708	1,126	394
55-59	10	25	468	117	794	199	1,148	287	1,479	370	1,917	479	1,922	481
60	100	25	306	77	421	105	715	179	1,033	258	1,331	333	1,725	431
GROSS TOTALS			**8,991**	**5,155**	**9,676**	**5,057**	**8,928**	**3,997**	**7,863**	**3,067**	**7,635**	**3,056**	**8,125**	**3,750**
less: surplus of teachers			0		0		- 179		0		0		0	
Required totals[2]			8,991		9,676		8,749		7,863		7,635		8,125	

FOOTNOTES: 1. It is assumed that job openings will be filled exclusively by new teachers younger than 35.

2. The "Required totals" correspond to a constant university enrolment ratio of the post-secondary age group and a constant student-teacher ratio.

SOURCE: A five year plan for the programs of the Natural Sciences and Engineering Research Council, 1979